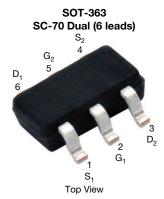


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# N-and P-Channel 20 V (D-S) 175 °C MOSFET



Marking Code: 9Q

PRODUCT SUMMARY						
	N-CHANNEL	P-CHANNEL				
V <sub>DS</sub> (V)	20	-20				
$R_{DS(on)}$ ( $\Omega$ ) at $V_{GS} = \pm 4.5 \text{ V}$	0.280	0.575				
$R_{DS(on)}$ ( $\Omega$ ) at $V_{GS} = \pm 2.5 \text{ V}$	0.360	1.300				
$R_{DS(on)}(\Omega)$ at $V_{GS} = \pm 1.8 \text{ V}$	0.450	1.500				
I <sub>D</sub> (A)	0.85	-0.85				
Configuration	N & P Pair					
Package	SC-70					

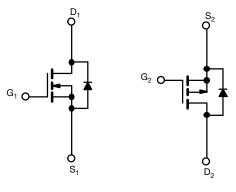
#### **FEATURES**

- TrenchFET® power MOSFET
- 100 % R<sub>g</sub> and UIS tested
- AEC-Q101 qualified <sup>c</sup>
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912





ROHS COMPLIANT HALOGEN FREE



N-Channel MOSFET

P-Channel MOSFET

ABSOLUTE MAXIMUM RATINGS (T <sub>C</sub> = 25 °C, unless otherwise noted)							
PARAMETER		SYMBOL	N-CHANNEL	P-CHANNEL	UNIT		
Drain-source voltage		$V_{DS}$	20	-20	V		
Gate-source voltage		$V_{GS}$	±	8	V		
Continuous drain current	T <sub>C</sub> = 25 °C	ı	0.85	-0.85			
Continuous drain current	T <sub>C</sub> = 125 °C	l <sub>D</sub>	0.85	-0.79			
Continuous source current (diode conduction)		Is	0.85	-0.85	Α		
Pulsed drain current <sup>a</sup>		I <sub>DM</sub>	3.3	-3.3			
Single pulse avalanche current	L = 0.1 mH	I <sub>AS</sub>	3.5	-1.4			
Single pulse avalanche energy	L=0.1 IIII	E <sub>AS</sub>	0.6	0.1	mJ		
Maximum power dissipation <sup>a</sup>	T <sub>C</sub> = 25 °C	D	1.5	1.5	W		
waximum power dissipation 4	T <sub>C</sub> = 125 °C	$P_{D}$	0.5	0.5	] vv		
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>stg</sub>	-55 to	+175	°C		

THERMAL RESISTANCE RATINGS								
PARAMETER		SYMBOL	N-CHANNEL	P-CHANNEL	UNIT			
Junction-to-ambient	PCB mount b	$R_{thJA}$	220	220	°C/W			
Junction-to-foot (drain)		$R_{thJF}$	100	100	C/VV			

#### Notes

- a. Pulse test; pulse width  $\leq 300~\mu s,$  duty cycle  $\leq 2~\%.$
- b. When mounted on 1" square PCB (FR4 material).



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PARAMETER	SYMBOL	otherwise noted)  TEST CONDITIONS			MIN.	TYP.	MAX.	UNIT	
Static						·	•		
Darie de la		V <sub>GS</sub> =	$V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$		20	-	-		
Drain-source breakdown voltage	V <sub>DS</sub>	$V_{DS}$ $V_{GS} = 0 \text{ V, } I_{D} = -250  \mu\text{A}$	: 0 V, I <sub>D</sub> = -250 μA	P-Ch	-20	-	-	,,	
Only and the sale of the sale	.,,	V <sub>DS</sub> =	· V <sub>GS</sub> , I <sub>D</sub> = 250 μA	N-Ch	0.45	0.6	1.5	V	
Gate-source threshold voltage	$V_{GS(th)}$	V <sub>DS</sub> =	V <sub>GS</sub> , I <sub>D</sub> = -250 μA	P-Ch	-0.45	-0.6	-1.5		
		.,	0.1/.1/	N-Ch	-	-	± 100		
Gate-source leakage	I <sub>GSS</sub>	V <sub>DS</sub> =	$= 0 \text{ V}, \text{ V}_{GS} = \pm 8 \text{ V}$	P-Ch	-	-	± 100	nA	
		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = 20 V	N-Ch	-	-	1		
		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -20 V	P-Ch	-	-	-1		
Zono della collega della considera		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = 20 V, T <sub>J</sub> = 125 °C	N-Ch	-	-	50	1	
Zero gate voltage drain current	I <sub>DSS</sub>	V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -20 V, T <sub>J</sub> = 125 °C	P-Ch	-	-	-50	μA	
		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = 20 V, T <sub>J</sub> = 175 °C	N-Ch	-	-	150	]	
		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -20 V, T <sub>J</sub> = 175 °C	P-Ch	-	-	-150	1	
On state dusin summer 2		V <sub>GS</sub> = 4.5 V	$V_{DS} = \ge 5 \text{ V}$	N-Ch	2	-	-	^	
On-state drain current a	I <sub>D(on)</sub>	V <sub>GS</sub> = -4.5 V	$V_{DS} = \le -5 \text{ V}$	P-Ch	-2	-	-	A	
		$V_{GS} = 4.5 \text{ V}$	I <sub>D</sub> = 0.85 A	N-Ch	-	0.150	0.280		
Drain-source on-state resistance <sup>a</sup>	R <sub>DS(on)</sub>	V <sub>GS</sub> = -4.5 V	I <sub>D</sub> = -0.80 A	P-Ch	-	0.500	0.575	Ω	
		V <sub>GS</sub> = 2.5 V	I <sub>D</sub> = 0.85 A	N-Ch	-	0.180	0.360		
		V <sub>GS</sub> = -2.5 V	I <sub>D</sub> = -0.60 A	P-Ch	-	1.050	1.300		
		V <sub>GS</sub> = 1.8 V	I <sub>D</sub> = 0.85 A	N-Ch	-	0.210	0.450		
		V <sub>GS</sub> = -1.8 V	I <sub>D</sub> = -0.20 A	P-Ch	-	1.200	1.500		
For and to a second of a second		V <sub>DS</sub> = 10 V, I <sub>D</sub> = 0.85 A		N-Ch	-	2.6	-		
Forward transconductance <sup>b</sup>	9fs	V <sub>DS</sub> =	-10 V, I <sub>D</sub> = -0.85 A	P-Ch	-	1.5	-	S	
Dynamic <sup>b</sup>									
land an aitema	0	$V_{GS} = 0 V$	V <sub>DS</sub> = 10 V, f = 1 MHz	N-Ch	-	67	89		
Input capacitance	C <sub>iss</sub>	V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -10 V, f = 1 MHz	P-Ch	-	63	84		
Output conscitones		V <sub>GS</sub> = 0 V	V <sub>DS</sub> = 10 V, f = 1 MHz	N-Ch	-	22	29		
Output capacitance	C <sub>oss</sub>	V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -10 V, f = 1 MHz	P-Ch	-	26	34	pF	
Deverage transfer conseitance	0	$V_{GS} = 0 V$	V <sub>DS</sub> = 10 V, f = 1 MHz	N-Ch	-	10	13		
Reverse transfer capacitance	C <sub>rss</sub>	V <sub>GS</sub> = 0 V	V <sub>DS</sub> = -10 V, f = 1 MHz	P-Ch	-	10	13		
			f = 1 MHz	N-Ch	-	3.8	11.6	_	
Gate resistance	R <sub>g</sub>		f = 1 MHz	P-Ch	-	3.1	9.5	Ω	
Total gata charge		V <sub>GS</sub> = 4.5V	V <sub>DS</sub> = 10 V, I <sub>D</sub> = 0.85 A	N-Ch	-	0.93	1.25		
Total gate charge	$Q_g$	V <sub>GS</sub> = -4.5 V	$V_{DS} = -10 \text{ V}, I_{D} = -0.85 \text{ A}$	P-Ch	-	1.0	1.33		
Cata aguraa aharra	_	V <sub>GS</sub> = 4.5 V	$V_{DS} = 10 \text{ V}, I_D = 0.85 \text{ A}$	N-Ch	-	0.16	-	nC	
Gate-source charge	$Q_{gs}$	V <sub>GS</sub> = -4.5 V	$V_{DS} = -10 \text{ V}, I_{D} = -0.85 \text{ A}$	P-Ch	-	0.15	-		
Oata duain abauma C	_	V <sub>GS</sub> = 4.5 V	V <sub>DS</sub> = 10 V, I <sub>D</sub> = 0.85 A	N-Ch	-	0.38	-		
Gate-drain charge <sup>c</sup>	$Q_{gd}$	V <sub>GS</sub> = -4.5 V	$V_{DS} = -10 \text{ V}, I_{D} = -0.85 \text{ A}$	P-Ch	-	0.44	-	1	



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<b>SPECIFICATIONS</b> (T <sub>C</sub> = 25 °C, unless otherwise noted)							
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Dynamic <sup>b</sup>							
To a security the second		$\begin{aligned} V_{DD} &= 10 \text{ V}, \text{ R}_L = 20 \Omega \\ I_D &\cong 0.5 \text{ A}, \text{ V}_{GEN} = 4.5 \text{ V}, \text{ R}_g = 1 \Omega \end{aligned}$	N-Ch	ı	3	6	
Turn-on delay time	t <sub>d(on)</sub>	$V_{DD} = -10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong -0.5 \text{ A}, \text{ V}_{GEN} = -4.5 \text{ V}, \text{ R}_g = 1 \Omega$	P-Ch	-	2	4	
Diag time		$V_{DD} = 10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong 0.5 \text{ A}, \text{ V}_{GEN} = 4.5 \text{ V}, \text{ R}_g = 1 \Omega$	N-Ch	-	21	27	
Rise time	t <sub>r</sub>	$V_{DD}$ = -10 V, $R_L$ = 20 $\Omega$ $I_D$ $\cong$ -0.5 A, $V_{GEN}$ = -4.5 V, $R_g$ = 1 $\Omega$	P-Ch	-	22	28	
Turn-off delay time	t <sub>d(off)</sub>	$V_{DD} = 10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong 0.5 \text{ A}, \text{ V}_{GEN} = 4.5 \text{ V}, \text{ R}_g = 1 \Omega$	N-Ch	-	20	25	ns
		$V_{DD} = -10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong -0.5 \text{ A}, \text{ V}_{GEN} = -4.5 \text{ V}, \text{ R}_g = 1 \Omega$	P-Ch	-	28	35	
Fall time		$V_{DD} = 10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong 0.5 \text{ A}, \text{ V}_{GEN} = 4.5 \text{ V}, \text{ R}_g = 1 \Omega$	N-Ch	-	17	24	
ran ume	t <sub>f</sub>	$V_{DD} = 10 \text{ V}, \text{ R}_L = 20 \Omega$ $I_D \cong \text{-0.5 A}, \text{ V}_{GEN} = \text{-4.5 V}, \text{ R}_g = 1 \Omega$	P-Ch	-	20	25	
Source-Drain Diode Ratings and Characteristics <sup>b</sup>							
Pulsed current <sup>a</sup>	I <sub>SM</sub>		N-Ch	1	-	3.3	Α
i dised culterit			P-Ch	-	-	-3.3	^
Earward voltage	V <sub>SD</sub>	I <sub>S</sub> = 0.85 A	N-Ch	-	0.9	1.2	V
Forward voltage		I <sub>S</sub> = -0.85 A	P-Ch	-	-0.9	-1.2	v

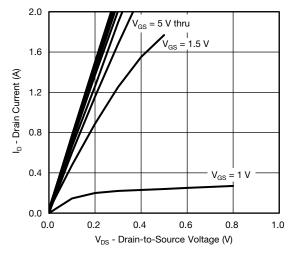
#### Notes

- a. Pulse test; pulse width  $\leq 300~\mu s,~duty~cycle \leq 2~\%.$
- b. Guaranteed by design, not subject to production testing.
- c. Independent of operating temperature.

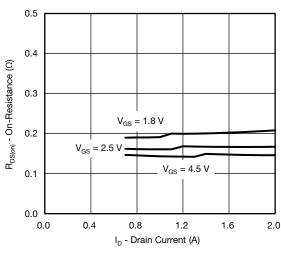
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



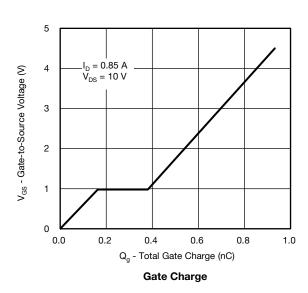
## N-CHANNEL TYPICAL CHARACTERISTICS (T<sub>A</sub> = 25 °C, unless otherwise noted)

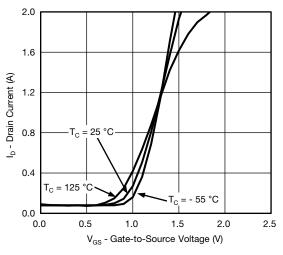


#### **Output Characteristics**

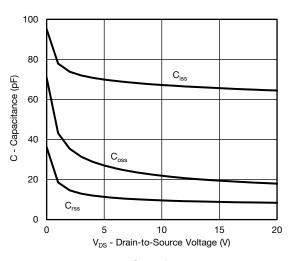


#### On-Resistance vs. Drain Current

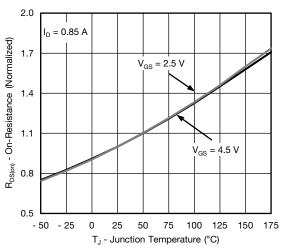




#### **Transfer Characteristics**



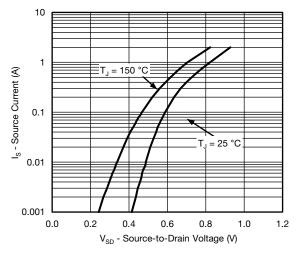
#### Capacitance



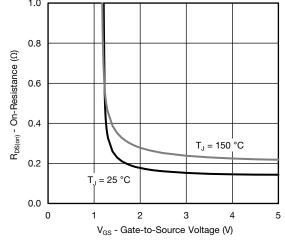
On-Resistance vs. Junction Temperature



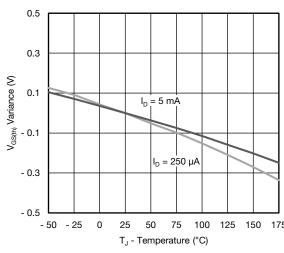
# **N-CHANNEL TYPICAL CHARACTERISTICS** ( $T_A = 25$ °C, unless otherwise noted)



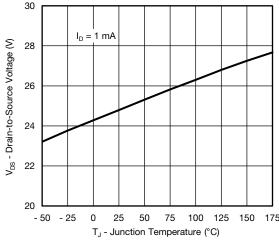
#### **Source Drain Diode Forward Voltage**



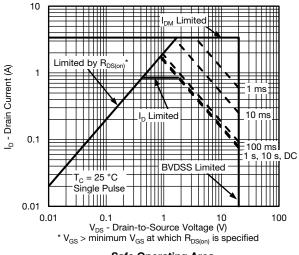
On-Resistance vs. Gate-to-Source Voltage



**Threshold Voltage** 

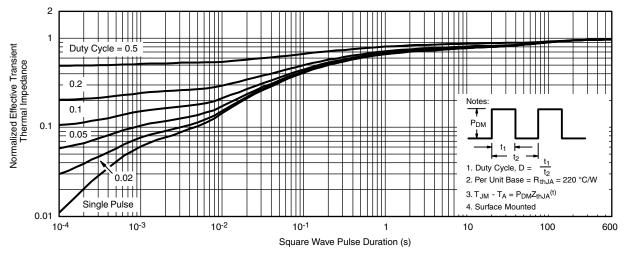


**Drain Source Breakdown vs. Junction Temperature** 

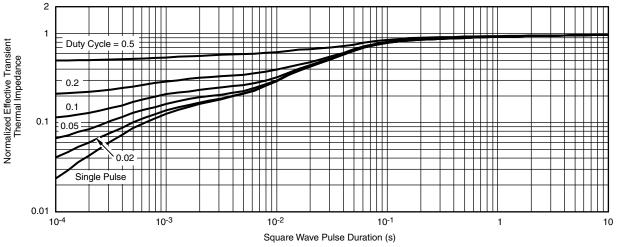




## N-CHANNEL THERMAL RATINGS (T<sub>A</sub> = 25 °C, unless otherwise noted)



Normalized Thermal Transient Impedance, Junction-to-Ambient



Normalized Thermal Transient Impedance, Junction-to-Foot

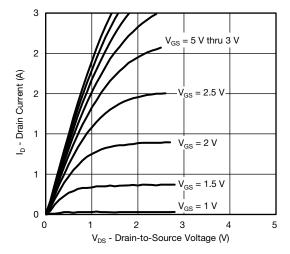
#### Note

- The characteristics shown in the two graphs
  - Normalized Transient Thermal Impedance Junction-to-Ambient (25 °C)
  - Normalized Transient Thermal Impedance Junction-to-Foot (25 °C)

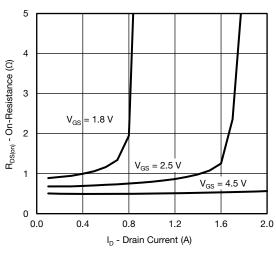
are given for general guidelines only to enable the user to get a "ball park" indication of part capabilities. The data are extracted from single pulse transient thermal impedance characteristics which are developed from empirical measurements. The latter is valid for the part mounted on printed circuit board - FR4, size 1" x 1" x 0.062", double sided with 2 oz. copper, 100 % on both sides. The part capabilities can widely vary depending on actual application parameters and operating conditions.



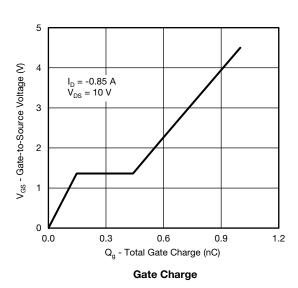
# **P-CHANNEL TYPICAL CHARACTERISTICS** ( $T_A = 25$ °C, unless otherwise noted)

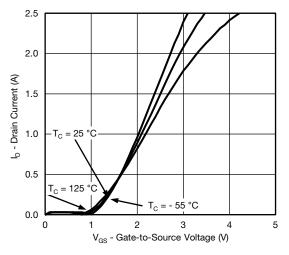


#### **Output Characteristics**

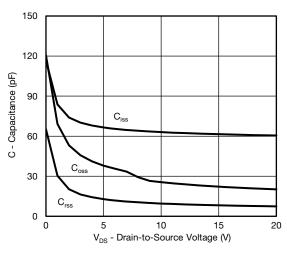


On-Resistance vs. Drain Current

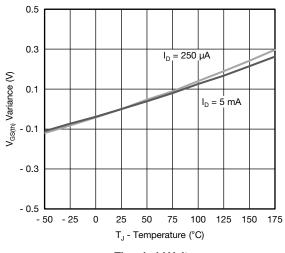




**Transfer Characteristics** 



Capacitance

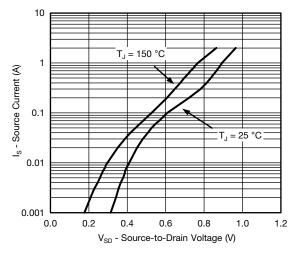


Threshold Voltage

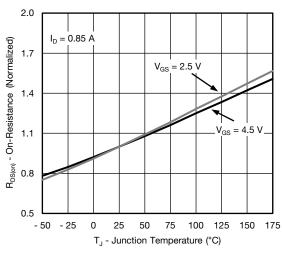
For technical questions, contact: automostechsupport@vis



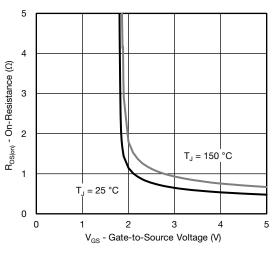
# **P-CHANNEL TYPICAL CHARACTERISTICS** ( $T_A = 25$ °C, unless otherwise noted)



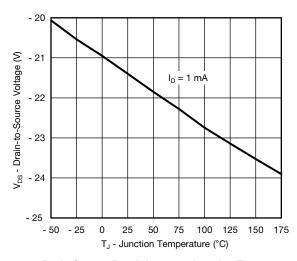
#### **Source Drain Diode Forward Voltage**



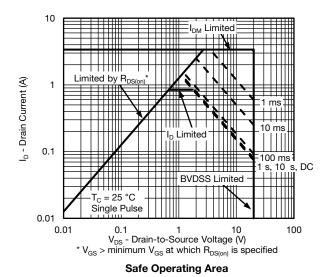
On-Resistance vs. Junction Temperature



On-Resistance vs. Gate-to-Source Voltage



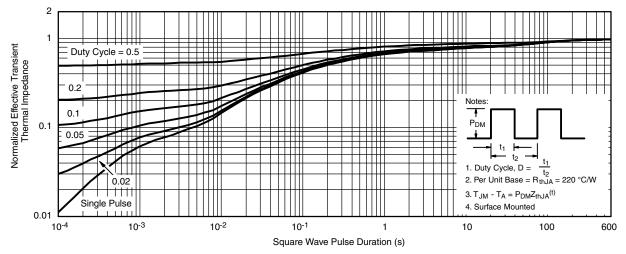
Drain Source Breakdown vs. Junction Temperature



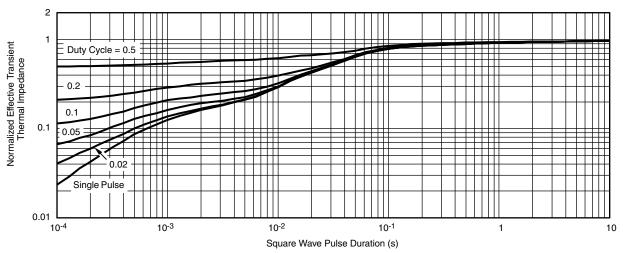
For technical questions, contact: automostech



## P-CHANNEL THERMAL RATINGS (T<sub>A</sub> = 25 °C, unless otherwise noted)



#### Normalized Thermal Transient Impedance, Junction-to-Ambient



Normalized Thermal Transient Impedance, Junction-to-Foot

#### Note

- The characteristics shown in the two graphs
  - Normalized Transient Thermal Impedance Junction-to-Ambient (25 °C)
  - Normalized Transient Thermal Impedance Junction-to-Foot (25 °C)

are given for general guidelines only to enable the user to get a "ball park" indication of part capabilities. The data are extracted from single pulse transient thermal impedance characteristics which are developed from empirical measurements. The latter is valid for the part mounted on printed circuit board - FR4, size 1" x 1" x 0.062", double sided with 2 oz. copper, 100 % on both sides. The part capabilities can widely vary depending on actual application parameters and operating conditions.

Vishay Siliconix maintains worldwide manufacturing capability. Products may be manufactured at one of several qualified locations. Reliability data for Silicon Technology and Package Reliability represent a composite of all qualified locations. For related documents such as package/tape drawings, part marking, and reliability data, see <a href="https://www.vishay.com/ppg?62986">www.vishay.com/ppg?62986</a>.





## SC-70: 6-LEADS





	MILLIMETERS			I	NCHE	S
Dim	Min	Nom	Max	Min	Nom	Max
Α	0.90	_	1.10	0.035	_	0.043
A <sub>1</sub>	-	_	0.10	-	_	0.004
A <sub>2</sub>	0.80	_	1.00	0.031	_	0.039
b	0.15	_	0.30	0.006	_	0.012
С	0.10	-	0.25	0.004	-	0.010
D	1.80	2.00	2.20	0.071	0.079	0.087
Ε	1.80	2.10	2.40	0.071	0.083	0.094
E <sub>1</sub>	1.15	1.25	1.35	0.045	0.049	0.053
е		0.65BSC			0.026BSC	;
e <sub>1</sub>	1.20	1.30	1.40	0.047	0.051	0.055
L	0.10	0.20	0.30	0.004	0.008	0.012
کے	<b>⋖</b> 7°Nom 7°Nom					

DWG: 5550



### **RECOMMENDED MINIMUM PADS FOR SC-70: 6-Lead**



Recommended Minimum Pads Dimensions in Inches/(mm)

Return to Index

## **Power MOSFETs**

**Application Note AN917** 

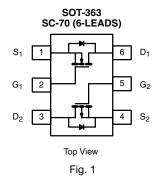
# Dual-Channel LITTLE FOOT® 6-Pin SC-70 MOSFET Copper Leadframe Version Recommended Pad Pattern and Thermal Performance 175 °C Rated Part

#### INTRODUCTION

The new dual 6-pin SC-70 package with a copper leadframe enables improved on-resistance values and enhanced thermal performance as compared to the existing 3-pin and 6-pin packages with Alloy 42 leadframes. These devices are intended for small to medium load applications where a miniaturized package is required. Devices in this package come in a range of on-resistance values, in n-channel and p-channel versions. This technical note discusses pin-outs, package outlines, pad patterns, evaluation board layout, and thermal performance for the dual-channel version.

#### **PIN-OUT**

Figure 1 shows the pin-out description and pin 1 identification for the dual-channel SC-70 device in the 6-pin configuration. Both n-and p-channel devices are available in this package – the drawing example below illustrates the p-channel device.



For package dimensions see outline drawing SC-70 (6-Leads) (<a href="https://www.vishay.com/doc?71154">www.vishay.com/doc?71154</a>)

#### **BASIC PAD PATTERNS**

Revision: 15-Apr-13

See Application Note 826, Recommended Minimum Pad Patterns With Outline Drawing Access for Vishay Siliconix MOSFETs, (<a href="https://www.vishay.com/doc?72286">www.vishay.com/doc?72286</a>) for the SC-70 6-pin basic pad layout and dimensions. This pad pattern is sufficient for the low-power applications for which this package is intended. Increasing the drain pad pattern (figure 2) yields a reduction in thermal resistance and is a preferred footprint.

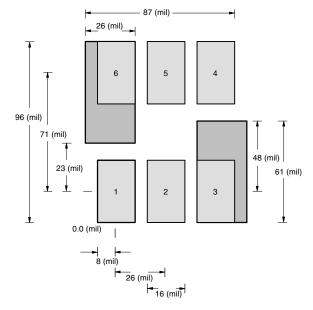


Fig. 2 SC-70 (6 leads) Dual

# **EVALUATION BOARD FOR THE DUAL-CHANNEL** SC70-6

The 6-pin SC-70 evaluation board (EVB) shown in figure 3 measures 0.6 in. by 0.5 in. The copper pad traces are the same as described in the previous section, Basic Pad Patterns. The board allows for examination from the outer pins to the 6-pin DIP connections, permitting test sockets to be used in evaluation testing.

The thermal performance of the dual 6-pin SC-70 has been measured on the EVB, comparing both the copper and Alloy > 42 leadframes. This test was then repeated using the 1-inch<sup>2</sup> PCB with dual-side copper coating.

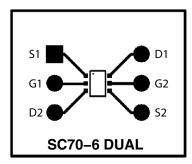
A helpful way of displaying the thermal performance of the 6-pin SC-70 dual copper leadframe is to compare it to the traditional Alloy 42 version.

APPLICATION NO

Vishay Siliconix

# Dual-Channel LITTLE FOOT® 6-Pin SC-70 MOSFET Copper Leadframe Version Recommended Pad Pattern and Thermal Performance 175 °C Rated Part

#### Front of Board SC70-6



Back of Board SC70-6

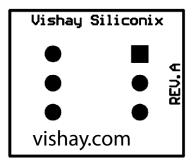


Fig. 3

#### THERMAL PERFORMANCE

# Junction-to-Foot Thermal Resistance (the Package Performance)

Thermal performance for the dual SC-70 6-pin package is measured as junction-to-foot thermal resistance, in which the "foot" is the drain lead of the device as it connects with the body. The junction-to-foot thermal resistance for this device is typically 80 °C/W, with a maximum thermal resistance of approximately 100 °C/W. This data compares favorably with another compact, dual-channel package - the dual TSOP-6 - which features a typical thermal resistance of 75 °C/W and a maximum of 90 °C/W.

#### Power Dissipation for 175 °C Rated Part

The typical R $\theta$ JA for the dual-channel 6-pin SC-70 with a copper leadframe is 224 °C/W steady-state, compared to 413 °C/W for the Alloy 42 version. All figures are based on the 1-inch² FR4 test board. The following example shows how the thermal resistance impacts power dissipation for the dual 6-pin SC-70 package at varying ambient temperatures.

Alloy 42 Leadframe

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ALLOY 42 LEADFRAME					
ROOM AMBIENT 25 °C	ELEVATED AMBIENT 60 °C				
$P_D = \frac{T_{J(max.)} - T_A}{R\theta_{JA}}$	$P_{D} = \frac{T_{J(max.)} - T_{A}}{R\theta_{JA}}$				
$P_{D} = \frac{175 {}^{\circ}\text{C} - 25 {}^{\circ}\text{C}}{413 {}^{\circ}\text{C/W}}$	$P_{D} = \frac{175  ^{\circ}\text{C} - 60  ^{\circ}\text{C}}{413  ^{\circ}\text{C/W}}$				
$P_D = 363 \text{ mW}$	$P_D = 278 \text{ mW}$				

COOPER LEADFRAME					
ROOM AMBIENT 25 °C	ELEVATED AMBIENT 60 °C				
$P_{D} = \frac{T_{J(max.)} - T_{A}}{R\theta_{JA}}$	$P_{D} = \frac{T_{J(max.)} - T_{A}}{R\theta_{JA}}$				
$P_{D} = \frac{175  ^{\circ}\text{C} - 25  ^{\circ}\text{C}}{224  ^{\circ}\text{C/W}}$	$P_D = \frac{175 ^{\circ}\text{C} - 60 ^{\circ}\text{C}}{224 ^{\circ}\text{C/W}}$				
$P_D = 669 \text{ mW}$	$P_D = 513 \text{ mW}$				

Although they are intended for low-power applications, devices in the 6-pin SC-70 dual-channel configuration will handle power dissipation in excess of 0.5 W.

### **TESTING**

To further aid the comparison of copper and Alloy 42 leadframes, Figures 4 and 5 illustrate the dual-channel 6-pin SC-70 thermal performance on two different board sizes and pad patterns. The measured steady-state values of  $R\theta_{JA}$  for the dual 6-pin SC-70 with varying leadframes are as follows:

LITTLE FOOT 6-PIN SC-70				
	ALLOY 42	COPPER		
1) Minimum recommended pad pattern on the EVB board (see fig. 3).	518 °C/W	344 °C/W		
2) Industry standard 1-inch <sup>2</sup> PCB with maximum copper both sides.	413 °C/W	224 °C/W		

The results indicate that designers can reduce thermal resistance ( $\theta_{JA}$ ) by 34 % simply by using the copper leadframe device as opposed to the Alloy 42 version. In this example, a 174 °C/W reduction was achieved without an increase in board area. If an increase in board size is feasible, a further 120 °C/W reduction can be obtained by utilizing a 1-inch<sup>2</sup>. PCB area.

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Vishay Siliconix

# Dual-Channel LITTLE FOOT® 6-Pin SC-70 MOSFET Copper Leadframe Version Recommended Pad Pattern and Thermal Performance 175 °C Rated Part

The dual copper leadframe versions have the following suffix:

Dual: Sx19xxEDH or Sx19xxEEH

Compl.: Sx15xxEDH or Sx15xxEEH

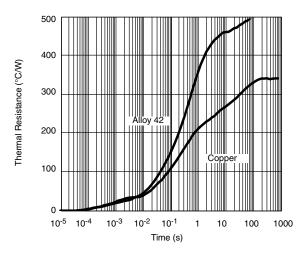


Fig. 4 Dual SC70-6 Thermal Performance on EVB

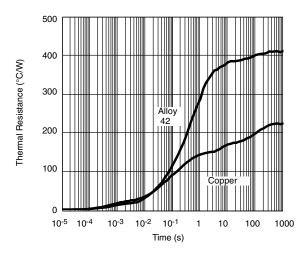


Fig. 5 Dual SC70-6 Comparison on 1-inch<sup>2</sup> PCB



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