

SS12 THRU SS120

SMAG Plastic-Encapsulate Diodes

Schottky Rectifier

Features

•I₀ 1A

●VRRM 20V-200V

High surge current capability

• Polarity: Color band denotes cathode

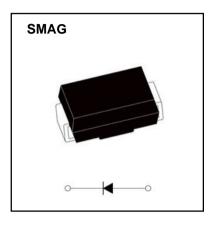
Applications

Rectifier

Marking

• SS1X

X: From 2 To 20



Limiting Values (Absolute Maximum Rating)

Item	Symbol Ur	Unit	it Test Conditions	SS	SS	SS	SS	SS	SS	SS	SS	SS
		Oilit		12	13	14	15	16	18	110	115	120
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100	150	200
Maximum RMS Voltage	V _{RMS}	V		14	21	28	35	42	56	70	105	140
Average Forward Current	I _{F(AV)}	Α	60HZ Half-sine wave, Resistance load, TL(Fig.1)	1.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave ,1 cycle , Ta =25 $^{\circ}$ C	30								
Junction Temperature	ure T _J °C		-5	5~+1	25	-55~+150						
Storage Temperature	T _{STG}	$^{\circ}$		-55 ~ + 150								

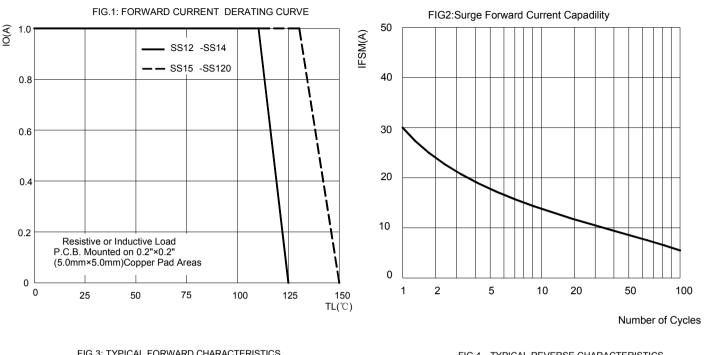
Electrical Characteristics (Ta=25°C Unless otherwise specified)

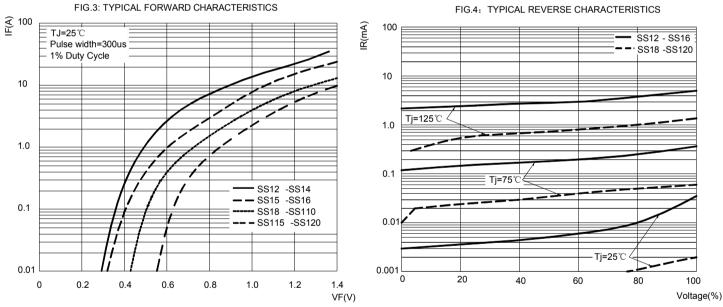
Item	Symbol	Unit	Test Co	SS 12	SS 13	SS 14	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120		
Peak Forward Voltage	V _F	V	I _F =		0.55 0.70			0.85		0.0	95			
Deal Deverse Overset	I _{RRM1}	mΛ	\/ -\/	T _a =25°C	0.5					0.1				
Peak Reverse Current I _{RRM2}		mA .	$V_{RM}=V_{RRM}$	T _a =100°C		10					5.0			
Thermal	$R_{\theta J-A}$	°C/W	Between junct	ion and ambient		65 ¹⁾								
Resistance(Typical)	$R_{\theta J-L}$	C/VV	Between junct	20 ¹⁾										

Notes:

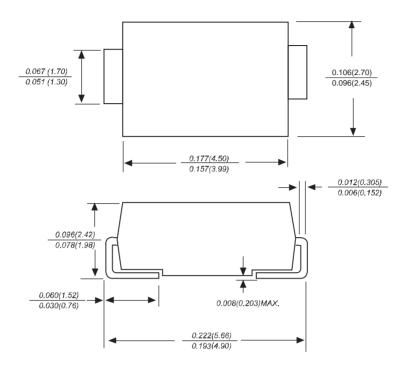
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics



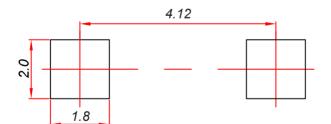


SMAG Package Outline Dimensions



Dimensions in inches and (millimeters)

SMAG Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance: ± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

JSHD reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JSHD does not assume any liability arising out of the application or use of any product described herein.

Reel Taping Specifications For Surface Mount Devices-SMAG

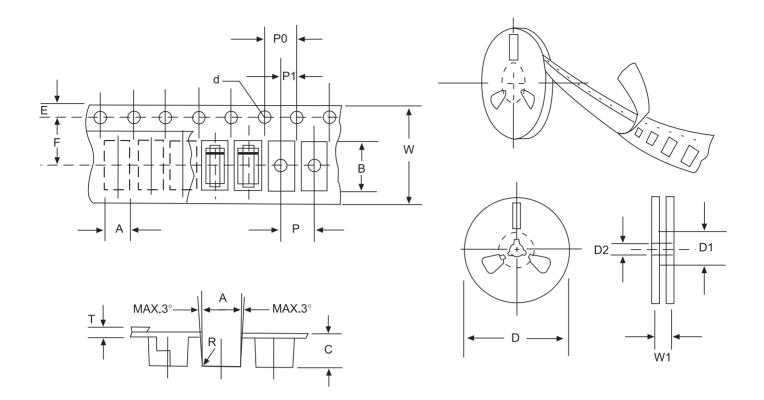


Fig:CONFIGURATION OF FLAT MELF TAPING

ITEM	SYMBOL	SMAG mm(inch)
Carrier width	А	2.79±0.1(0.110±0.004)
Carrier length	В	5.33±0.1(0.210±0.004)
Carrier depth	С	2.36±0.1(0.093±0.004)
Sprocket hole	d	1.55±0.05 (0.061±0.002)
Reel outside diameter	D	279±2.0 (11±0.079)
Reel inner diameter	D1	75±1.0 (2.95±0.039)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Strocket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	5.5±0.05(0.217±0.002)
Punch hole pitch	Р	4.0±0.1(0.157±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)
Totall tape thickness	Т	0.28±0.02(0.011±0.0008)
Tape width	W	12.0±0.2(0.472±0.008)
Reel width	W1	16.8±2.0(0.661±0.079)

NOTE:Devices are packde in accordance with EIA standard RS-481-A and specification given above.