

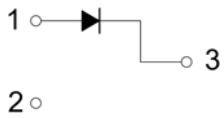
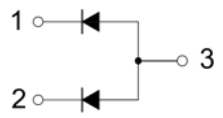
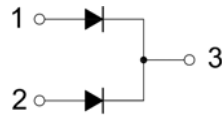
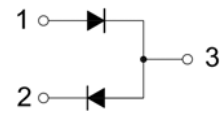
# **BAR43/A/C/S** SCHOTTKY BARRIER DIODE

## **FEATURES**

- Low Current Leakage
- For General Purpose Switching Applications



SOT-23-3

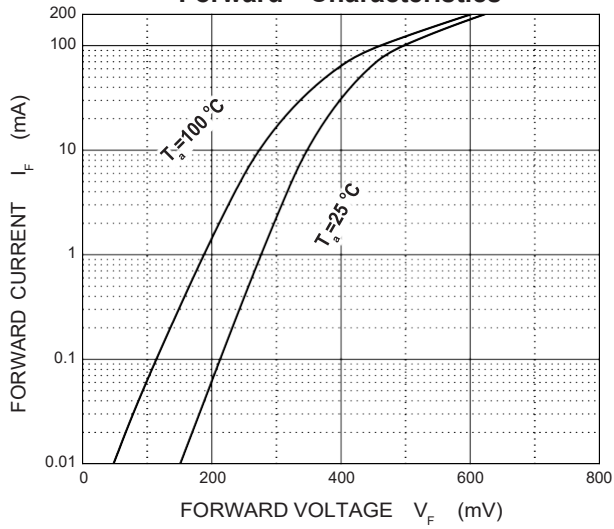
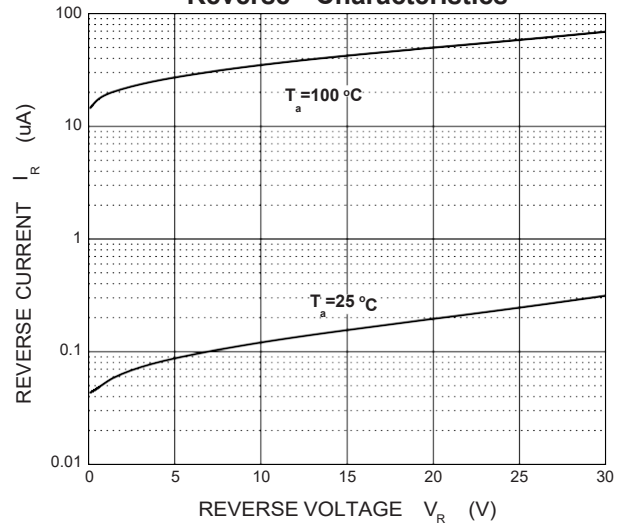
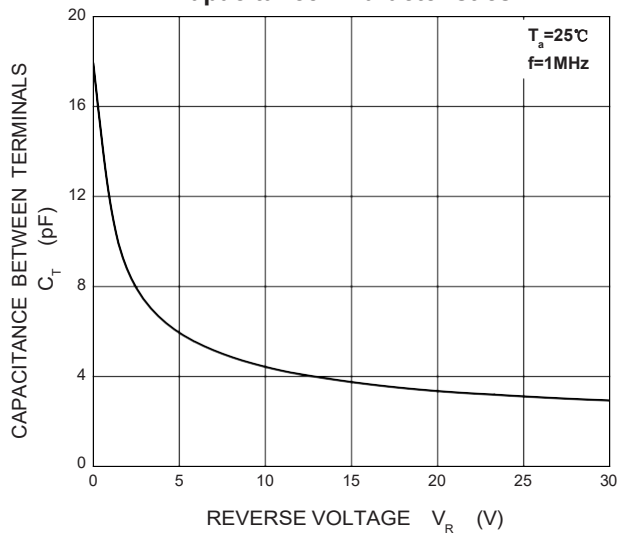
BAR43	BAR43A	BAR43C	BAR43S
			
<b>MARKING:D95</b>	<b>MARKING: DB1</b>	<b>MARKING:DB2</b>	<b>MARKING:DA5</b>

## **MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted )**

Symbol	Parameter	Value	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage	30	V
$V_{RWM}$	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	21	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	0.75	A
$P_D$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^{\circ}\text{C/W}$
$T_j$	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

## **ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}\text{C}$ unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30			V
Reverse current	$I_R$	$V_R=25\text{V}$			0.5	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=2\text{mA}$	0.26		0.33	V
		$I_F=15\text{mA}$			0.45	
		$I_F=100\text{mA}$			0.8	
Reverse recovery time	$t_{rr}$	$I_F=I_R=10\text{mA}$ , $I_{rr}=0.1\times I_R$ , $R_L=100\Omega$			5	ns

**Forward Characteristics**

**Reverse Characteristics**

**Capacitance Characteristics**

**Power Derating Curve**
