

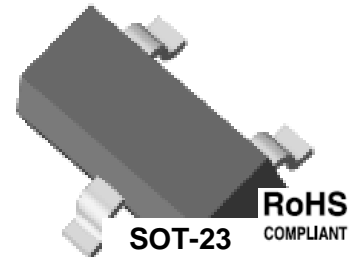


DUAL SURFACE MOUNT SWITCHING DIODE BAW56

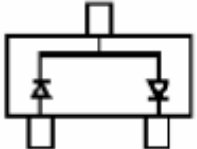
Dual Surface Mount Switching Diode

Features

- General purpose switching applications
- Fast Switching speed
- Low turn on voltage
- High conductance



Mechanical Data

Case:	SOT-23, transfer molded plastic
Pingout:	 See diagram
Terminals:	Solderable per MIL-STD-202E, Method 208C
Polarity:	
Mounting position:	
Weight:	0.00028 Ounce, 0.008 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAW56	Unit	Conditions
VRRM	Non-Repetitive Peak Reverse Voltage	100	V	
IFM	Forward Continuous Current	300	mA	
t _{rr}	Max Reverse Recovery Time	4	nS	IF= 10mA, IR=10mA, IRR=1mA, RL=100Ω
IFSM	Non-Repetitive Peak Forward Surge Current	2.0	Amps	T=1.0μS, T=1.0S
		1.0		
PTOT	Power dissipation	350	mW	Note 1
T _J , T _{STG}	Operating and Storage Temperature	-55 to +150	°C	
VRM	Maximum Repetitive Peak Reverse Voltage	75	V	

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAW56	Unit	Conditions
VF	Max Instantaneous Forward Voltage	0.715	V	1.0mA
		0.855		10mA
		1.0		50mA
		1.25		150mA
IR	Max DC Reverse Current at Rated DC Blocking Voltage	2.5	μA	VR=75V
		50		VR=75V, TJ=150°C
		30		VR=25V, TJ=150°C
C _J	Typical Junction Capacitance	2.0	pF	Vf=1V, f=1MHZ
Rθ-JA	Typical Thermal Resistance	355	°C/W	

Note:

1. Short duration pulse test used

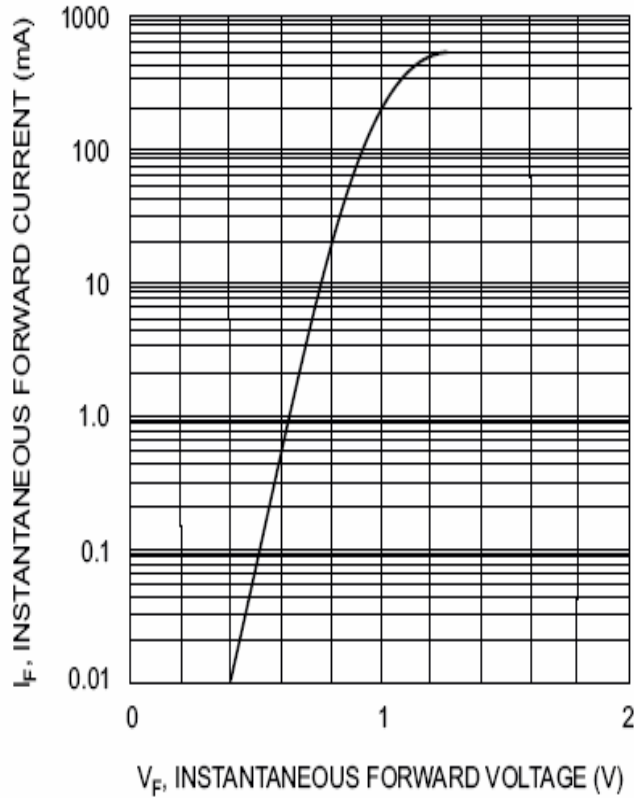
Ratings And Characteristic Curve BAW70:


Fig. 1 Forward Characteristics

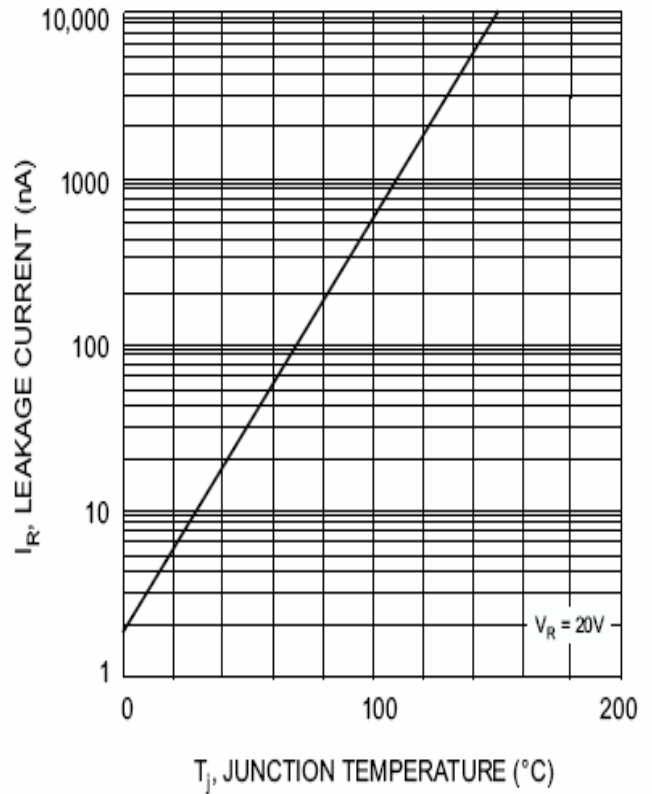
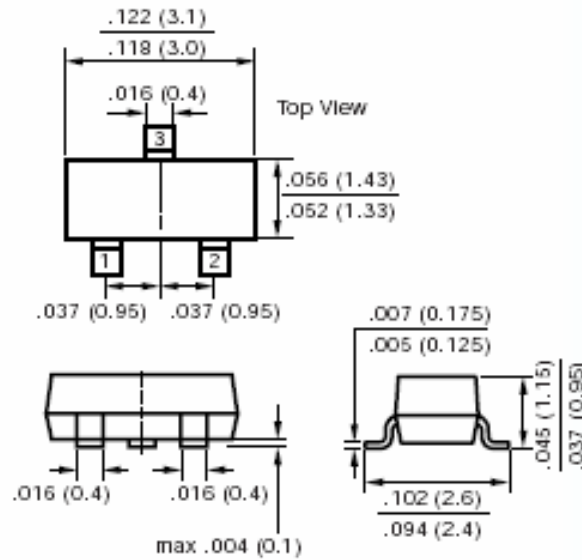


Fig. 2 Leakage Current vs Junction Temperature

Dimensions in inch (mm)

**SOT-23****Contact us:****US HEADQUARTERS****MEI SEMI INC.**

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