WEITRON

BAS40T/-04T/-05T/-06T

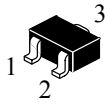
Surface Mount Schottky Diodes

Lead(Pb)-Free

SCHOTTKY DIODES
200m AMPERES
40 VOLTS

Features:

* Low forward voltage
* Fast switching
* Ultra-Small Surface Mount Package



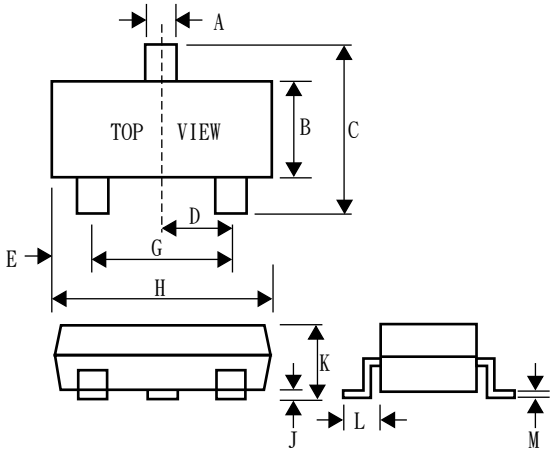
SOT-523(SC-75)

Mechanical Data:

* Terminals: Solderable per MIL-STD-202, Method 208
* Polarity: See Diagrams Page.2
* Marking: See Diagrams Page.2
* Weight: 0.002 grams (approx)

SOT-523 Outline Dimensions (SC-75)

Unit:mm



SC-75		
Dim	**Min**	**Max**
A	0.30	0.50
B	0.70	0.90
C	1.45	1.75
D	–	0.50
E	0.15	0.40
G	0.80	1.00
H	1.40	1.80
J	0.00	0.10
K	0.70	1.00
L	0.37	0.48
M	0.10	0.25

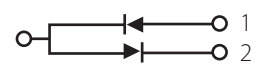
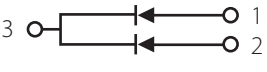
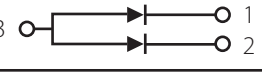
Maximum Ratings (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RRM} V_R	40	V
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_d	150	mW
Storage Temperature Range	T_{STG}	-55 to + 150	°C

Electrical Characteristics (T_A=25 C Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage I_R=10μA	$V_{(BR)R}$	40		V
Forward Voltage I_F=1mA I_F=40mA	V_F		0.38 1.00	V
Total Capacitance V_R=0V, f=1.0MHz	C_T		5.0	P_F
Reverse Current V_R=30V	I_R		0.2	μA
Reverse Recover Time I_F=I_R =10mA, I_{rr}=0.1 x I_R, R_L=100Ω	Trr		5.0	nS

Device Marking

Item	Marking	Eqivalent Circuit diagram
BAS40T	43h	
BAS40-04T	44	
BAS40-05T	45	
BAS40-06T	46	

Electrical Characteristic curves(Ta=25˚C)

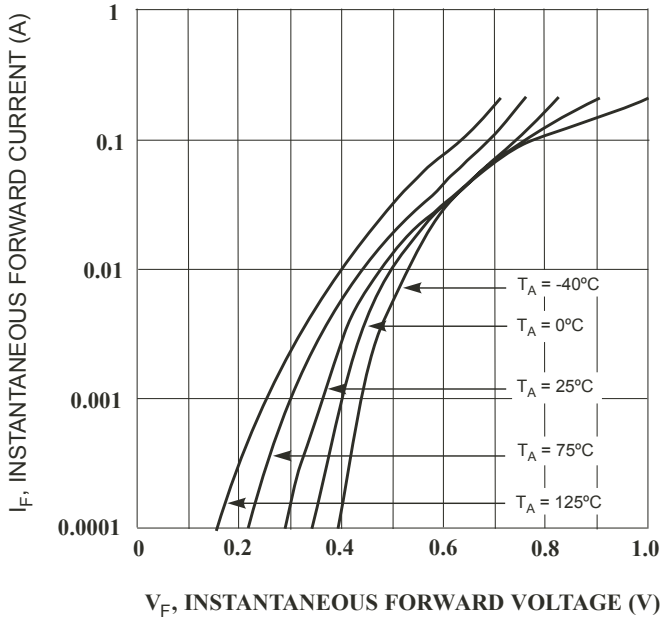


Fig. 1 Typical Forward Voltage

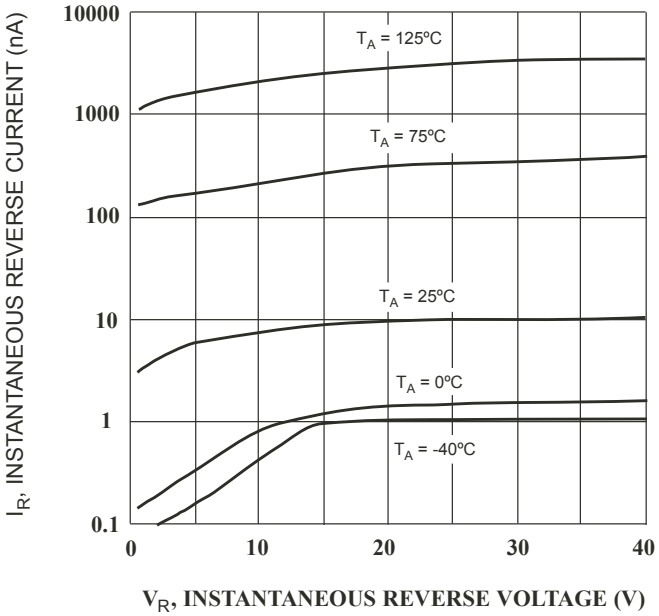


Fig. 2 Typical Reverse Characteristics

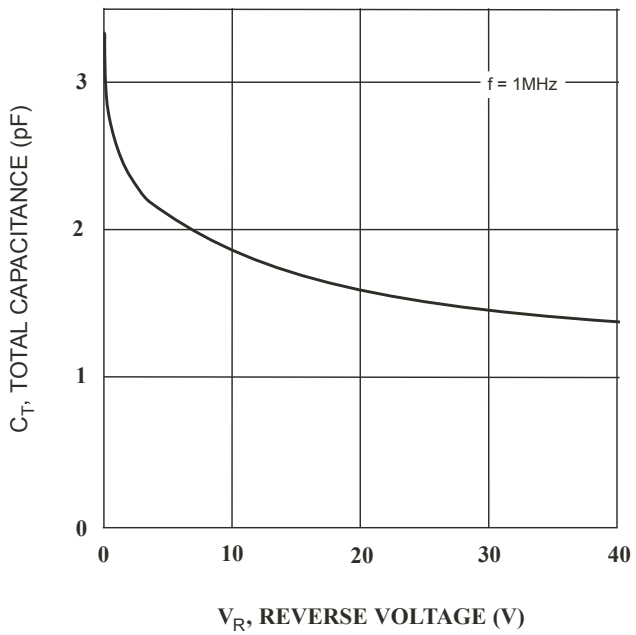


Fig. 3 Typical Capacitance

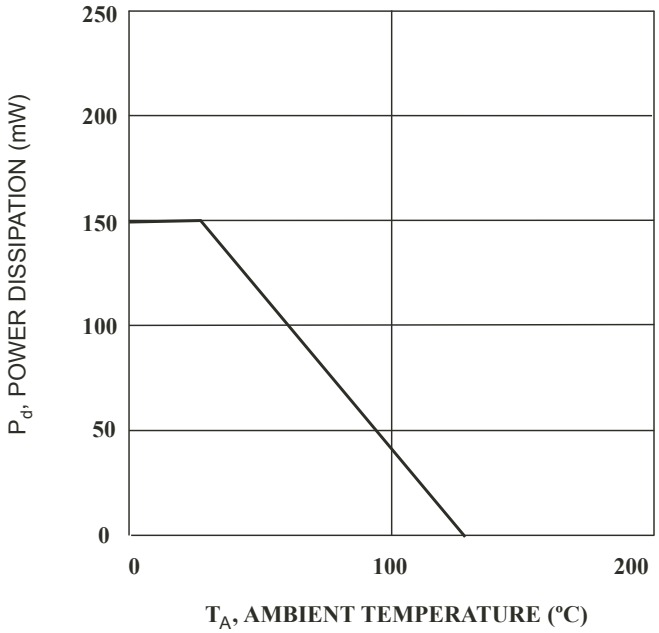


Fig. 4 Power Derating Curve, Total Package