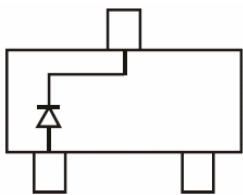


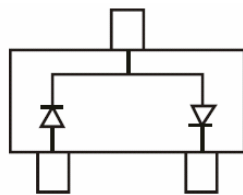
SCHOTTKY DIODE

FEATURES

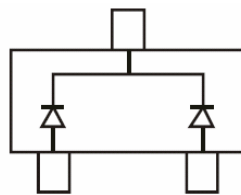
- Low forward voltage
- Fast switching



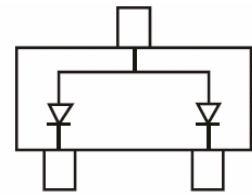
BAS40T MARKING: 43



BAS40-04T MARKING: 44



BAS40-05T MARKING: 45



BAS40-06T MARKING: 46

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _{FM}	200	mA
Average Rectified Output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s	I _{FSM}	0.6	A
Power Dissipation	P _D	150	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	833	°C/W
Operating Junction Temperature	T _J	125	°C
Storage temperature	T _{STG}	-65-125	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _{(BR)R}	40			V	I _R =10μA
Forward voltage	V _{F1}			0.38	V	I _F =1mA
	V _{F2}			1	V	I _F =40mA
Reverse current	I _R			0.2	μA	V _R =30V
Diode Capacitance	C _D			5	pF	V _R =0, f=1MHz
Reverse Recovery Time	t _{rr}			5	nS	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics

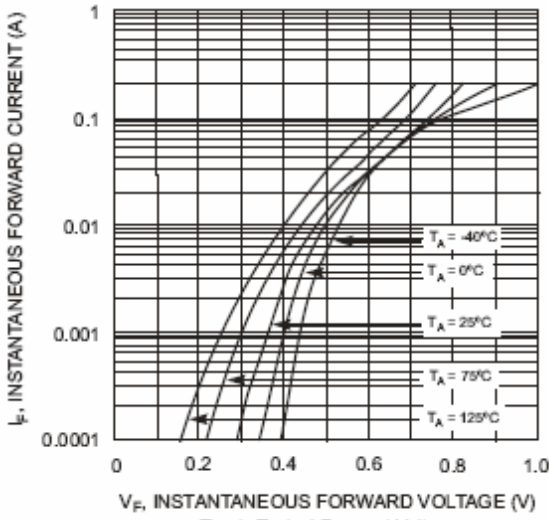


Fig. 1 Typical Forward Voltage

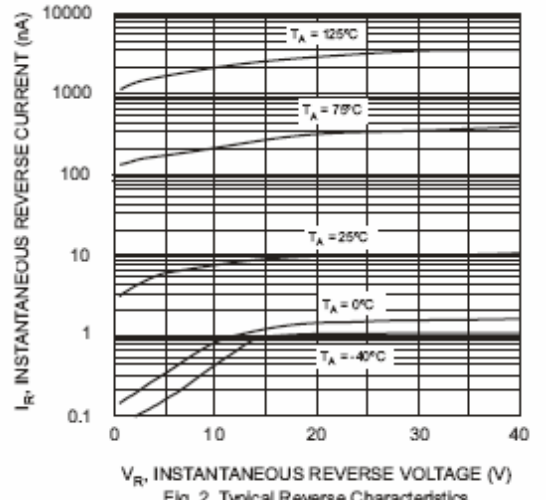


Fig. 2 Typical Reverse Characteristics

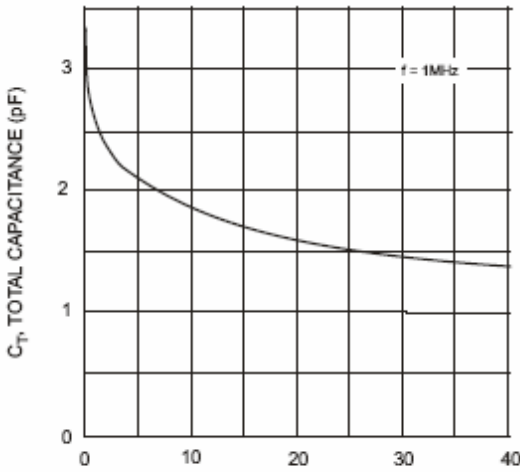


Fig. 3 Typical Capacitance

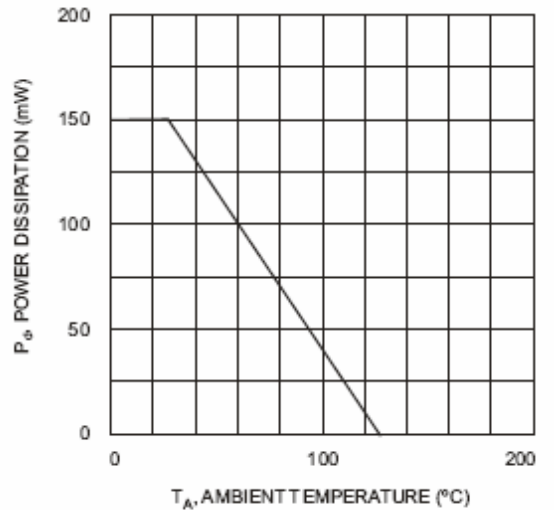


Fig. 4 Power Derating Curve, Total Package