



SOT-523 Plastic-Encapsulate Diodes

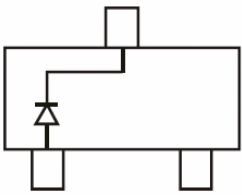
BAS40T/-04T/-05T/-06T SCHOTTKY DIODE

SOT-523

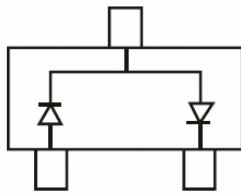


FEATURES

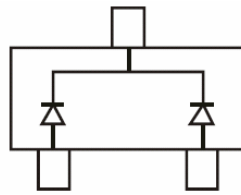
- Low forward voltage
- Fast switching



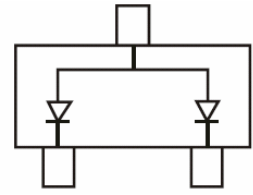
BAS40T MARKING: 43h



BAS40-04T MARKING: 44



BAS40-05T MARKING: 45



BAS40-06T MARKING: 46

Maximum Ratings @T_A=25

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
Power Dissipation	P _d	150	mW
Storage temperature	T _{STG}	-55-150	°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} =0.1I _R , R _L =100Ω

Typical Characteristics

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

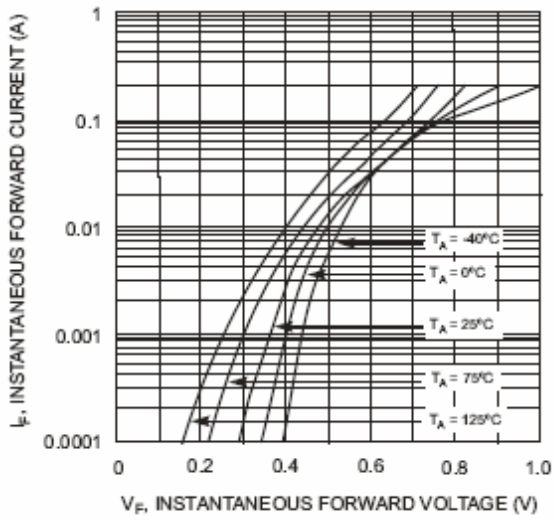


Fig. 1 Typical Forward Voltage

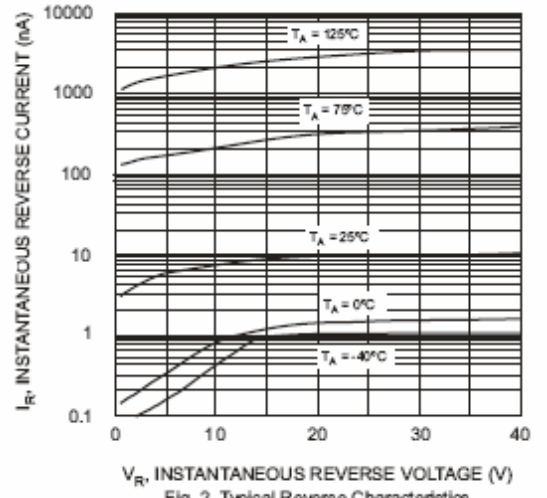


Fig. 2 Typical Reverse Characteristics

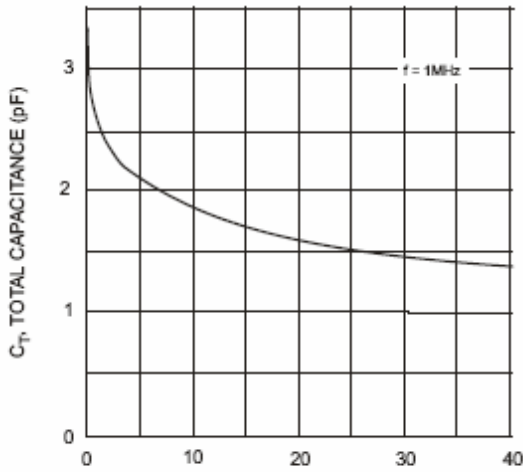


Fig. 3 Typical Capacitance

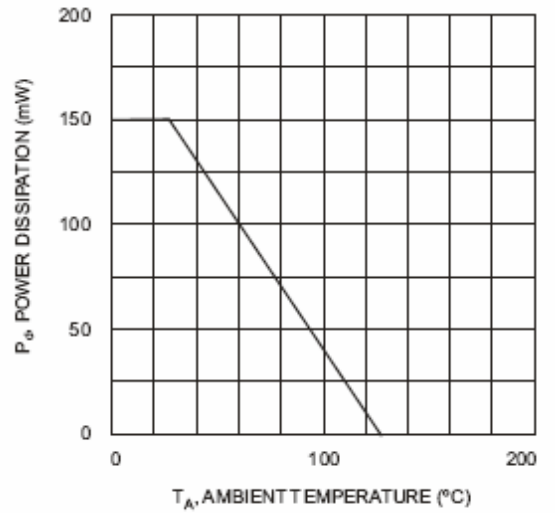


Fig. 4 Power Derating Curve, Total Package