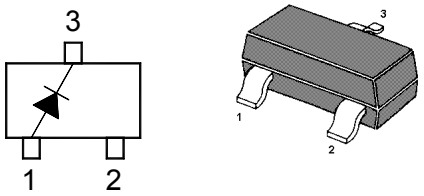
BAT400D

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



1. ANODE 3. CATHODE

Marking Code: **PK**
TO-236 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Current	I_O	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	3	A
Power Dissipation	P_d	480	mW
Typicial Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	286	°C/W
Operating and Storage Temperature Range	T_{opr} ,T_{stg}	-40 to +125	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at I_F = 10 mA at I_F = 500 mA	V_F	 - -	 - -	 0.3 0.55	V
Reverse Breakdown Voltage at I_R = 1 mA	$V_{(BR)R}$	40	-	-	V
Reverse Current at V_R = 10 V at V_R = 30 V	I_R	 - -	 - -	 30 50	µA
Total Capacitance at V_R = 0 V, f = 1 MHz at V_R = 10 V, f = 1 MHz	C_{tot}	 - -	 125 20	 - -	pF

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Dated : 03/12/2005

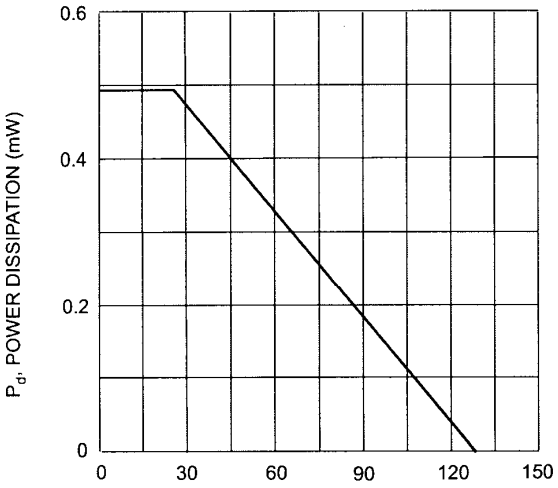

Fig. 1 Forward Current Derating Curve

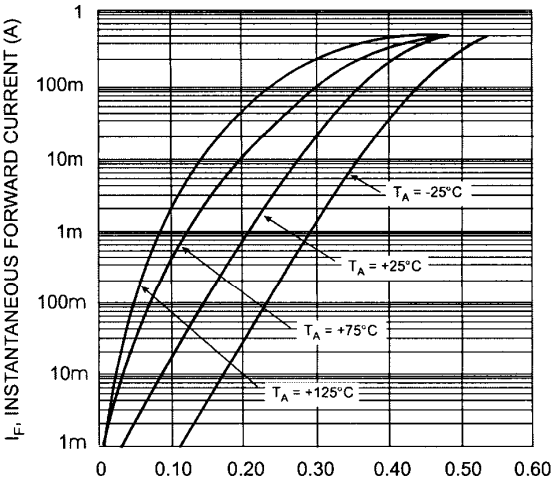

Fig. 2 Typical Forward Characteristics

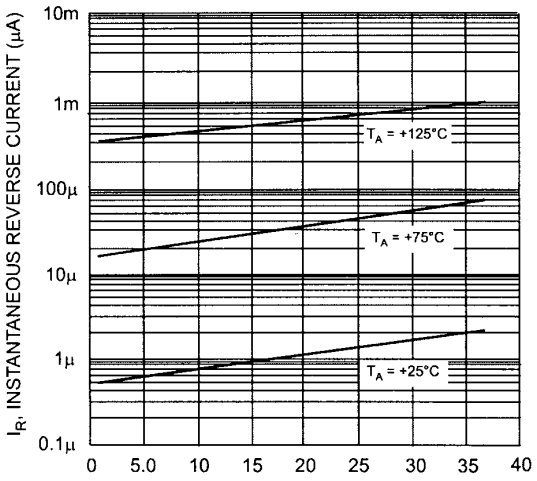

Fig. 3 Typical Reverse Characteristics

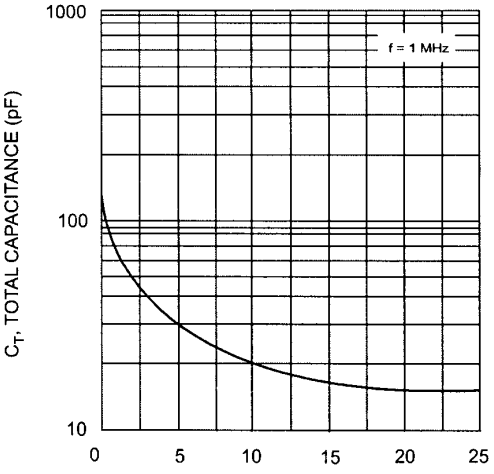

Fig. 4 Typical Total Capacitance vs. Reverse Voltage