



BAT400D

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE 40 Volts **CURRENT** 480 mWatts

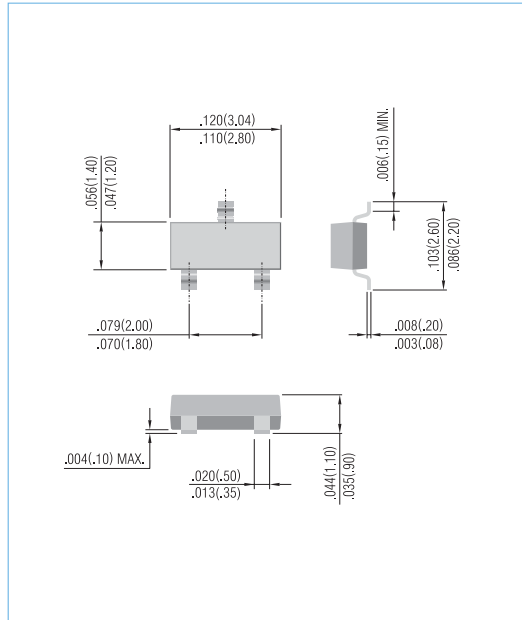
SOT-23 Unit: inch (mm)

FEATURES

- Low Forward voltage Drop
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-23, Plastic
 Terminals: Solderable per MIL-STD-750, Method 2026
 Approx. Weight: 0.008 gram
 Marking Code: KSJ



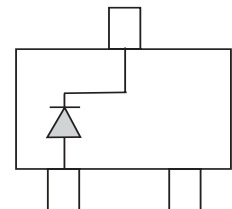
MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Current	$I_{F(AV)}$	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave supimposed on rated load (JEDEC Method)	I_{FSM}	5.5	A
Power Dissipation (see figure 1)	P_D	480	mW
Typical Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	286	°C/W
Operation and Storage Temperature Range	T_J, T_{STG}	-40 to +125	°C

NOTE : 1.Short duration pulse test used to minimize self-heating effect.

SINGLE





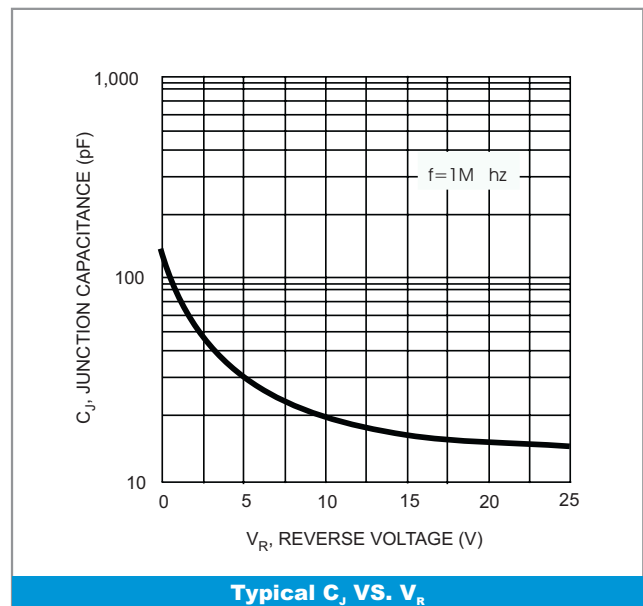
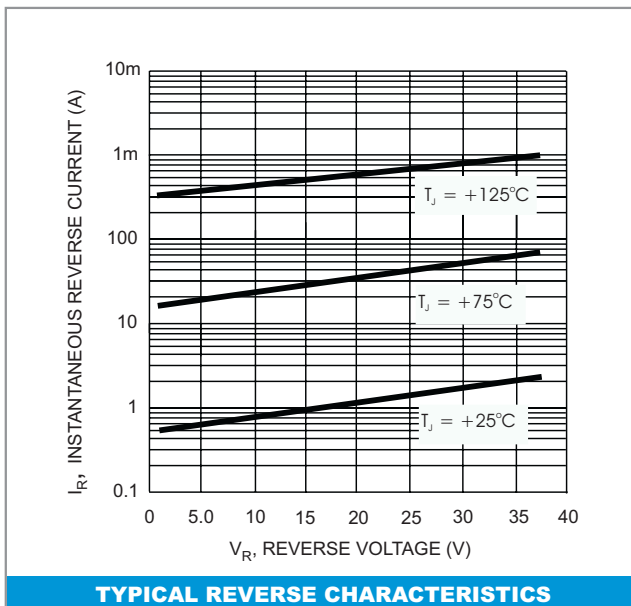
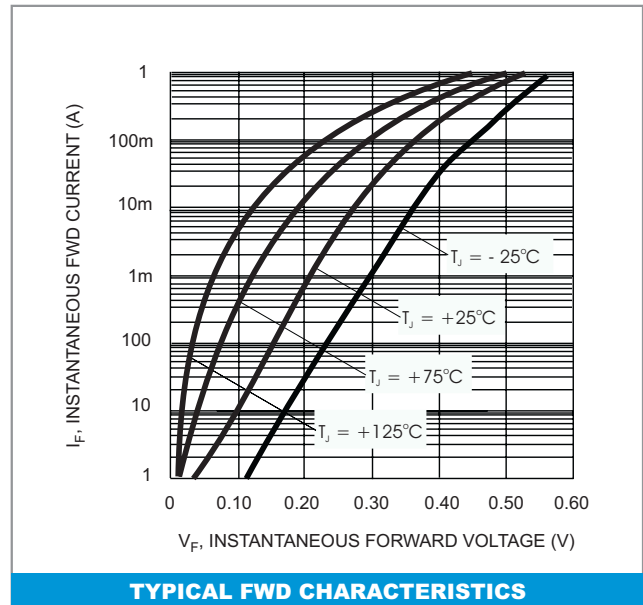
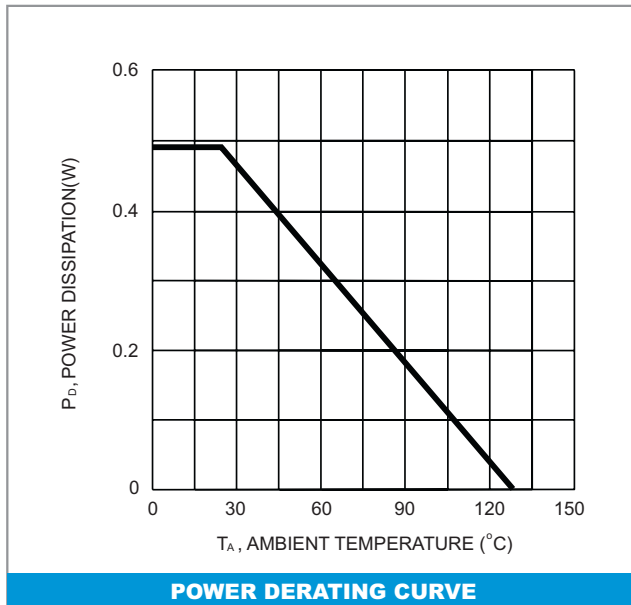
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ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	$I_R=1mA$	40			V
Forward Voltage (Note 1)	V_F	$I_F=10mA$ $I_F=500mA$		285 480	300 500	mV
Reverse Current (Note 1)	I_R	$V_R=10V$ $V_R=30V$		1.0 2.0	30 50	μA
Junction Capacitance	C_J	$V_R=0V, f=1.0MHz$ $V_R=10V, f=1.0MHz$		170 20		pF

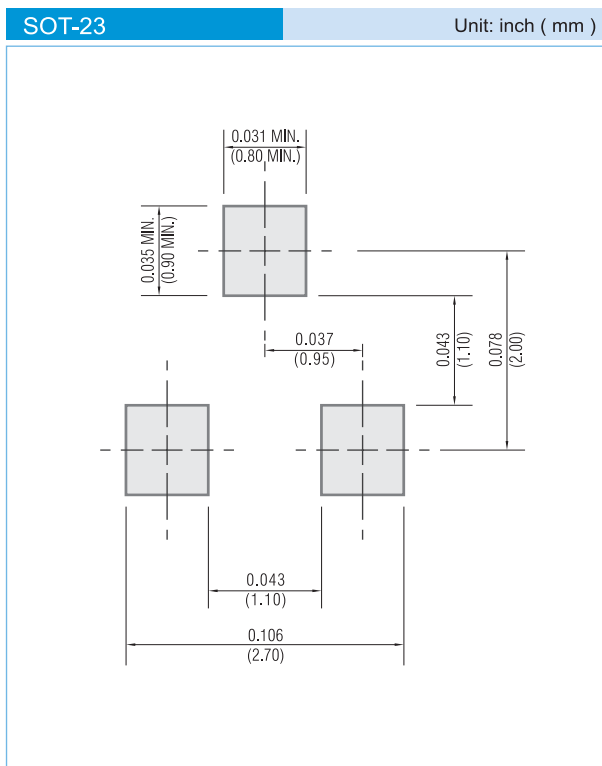
NOTE : 1.Short duration pulse test used to minimize self-heating effect.





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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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