



SURFACE MOUNT SCHOTTKY BARRIER DIODES

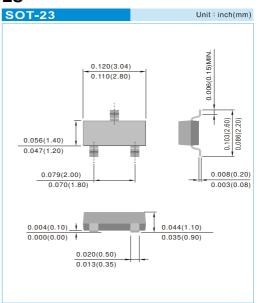
VOLTAGE 40 Volt CURRENT 500 mA

FEATURES

- · Low Forward voltage Drop
- · High Conductance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams
- · Marking Code: KSJ

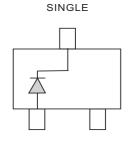


MAXIMUM RATINGS

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

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	V
RMS Reverse Voltage	VR(RMS)	28	V
Average Rectified Current	I F(AV)	0.5	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave supimposed on rated load	I FSM	5.5	А
Power Dissipation (see figure 1)	PD	480	mW
Typical Thermal Resistance, Junction to Ambient Air	Rеja	286	°C/W
Operation and Storage Temperature Range	Тл, Тэта	-40 to +125	°C

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







ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Bearkdown Voltage (Note 1)	V(BR)R	I R=1mA	40	-	-	V
Forward Voltage (Note 1)	VF	I F=10mA I F=500mA	-	285 480	300 500	mV
Reverse Current (Note 1)	l R	V _R =10V V _R =30V	-	1 2	30 50	μΑ
Junction Capacitance	Сл	V _R =0V,f =1MHz V _R =10V,f =1MHz	-	170 20	-	pF

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





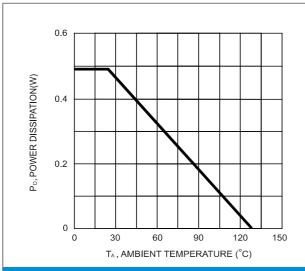


FIG.1 POWER DERATING CURVE

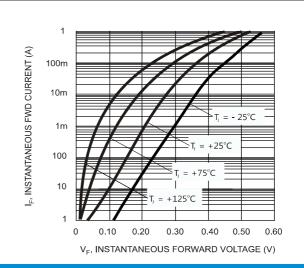
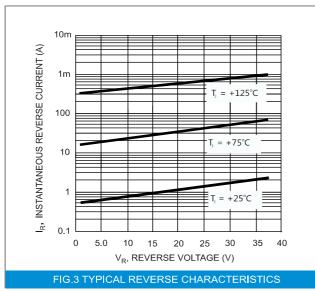
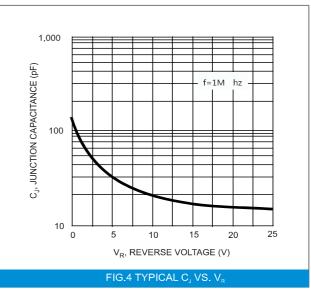
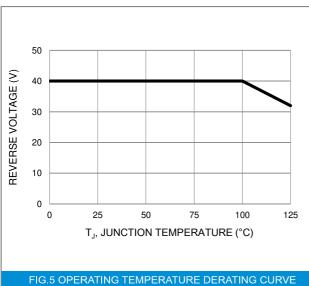


FIG.2 TYPICAL FWD CHARACTERISTICS



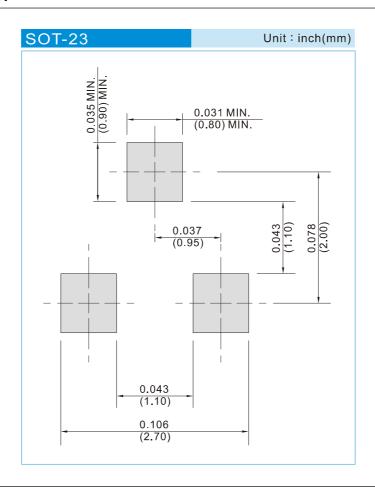








MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

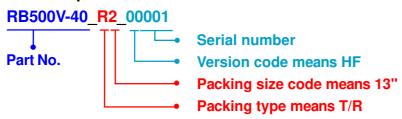




Part No_packing code_Version

BAT400D_R1_00001 BAT400D_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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