



SS0530TB6

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 30 Volts **CURRENT** 0.5 Amperes

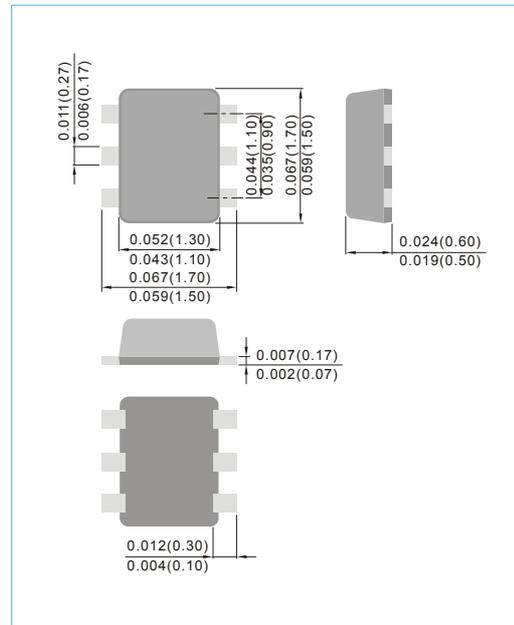
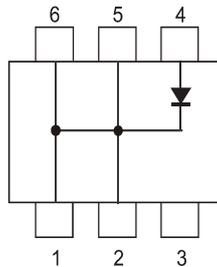
SOT-563 Unit : inch(mm)

FEATURES

- Low Switching noise
- High Frequency Rectification
- Low Leakage Current
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0001 ounces, 0.0026 grams
- Polarity: Color band denotes cathode end
- Marking: 3B



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	30	V
Peak Reverse Voltage	V _{RRM}	30	V
Average Rectified Current	I _O	0.5	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	6	A
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	625	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =0.2mA	30	-	-	V
Reverse Current	I _R	V _R =15 V	-	-	5	μA
Forward Voltage	V _F	I _F =0.5A	-	0.45	0.5	V
Typical Junction Capacitance	C _J	V _R =0V, f=1.0MHz	-	132	-	pF

NOTES:

1. Mounted on 48cm² FR-4 PCB .



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RATING AND CHARACTERISTIC CURVES

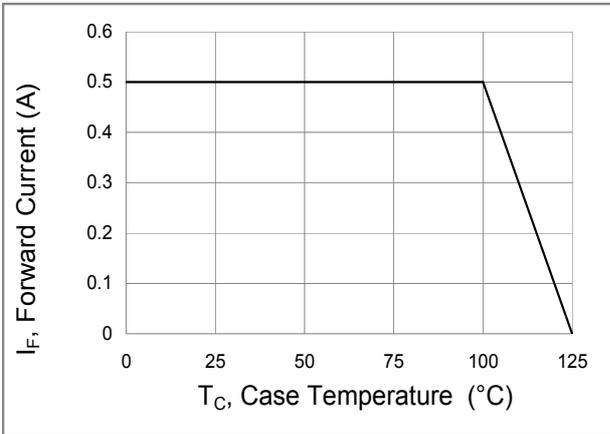


Fig.1 Forward Current Derating Curve

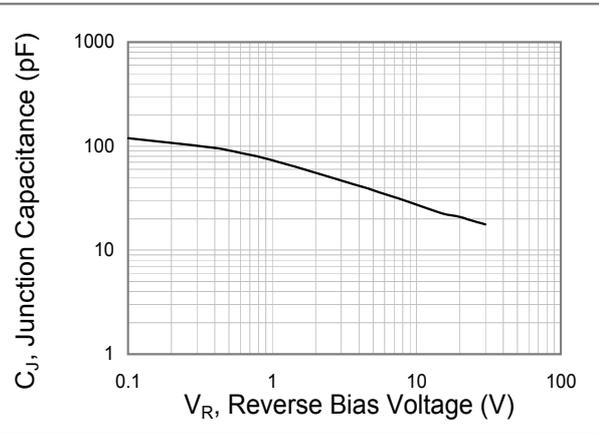


Fig.2 Typical Junction Capacitance

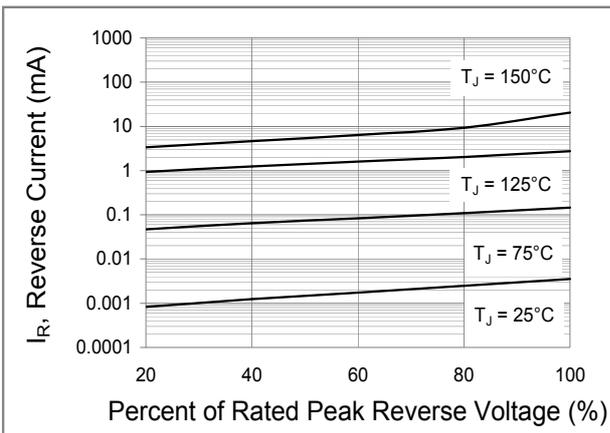


Fig.3 Typical Reverse Characteristics

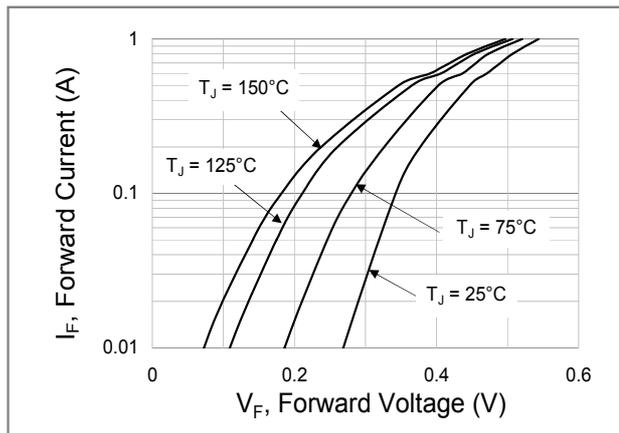
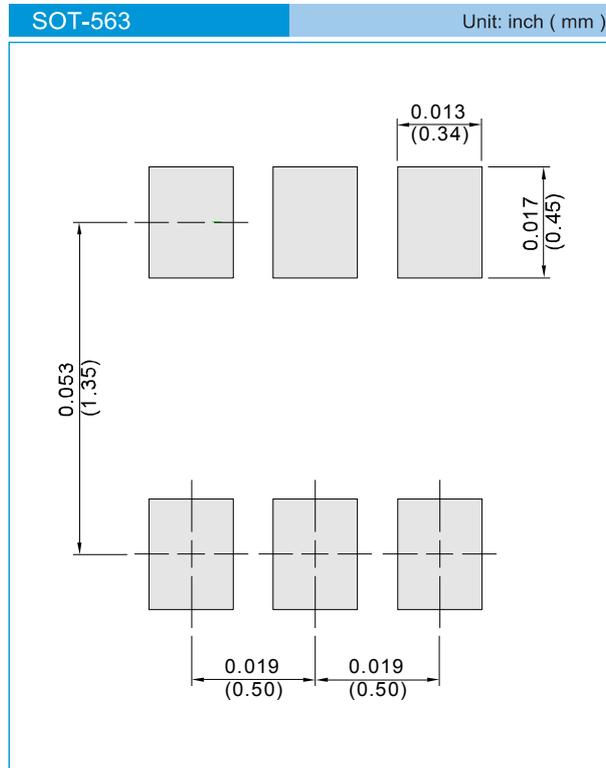


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel



SS0530TB6

Part No_packing code_Version

SS0530TB6_R1_00001

SS0530TB6_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
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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