



SS0115TW

SURFACE MOUNT SCHOTTKY BARRIER DIODE

VOLTAGE 15 Volt **CURRENT** 0.1 Ampere

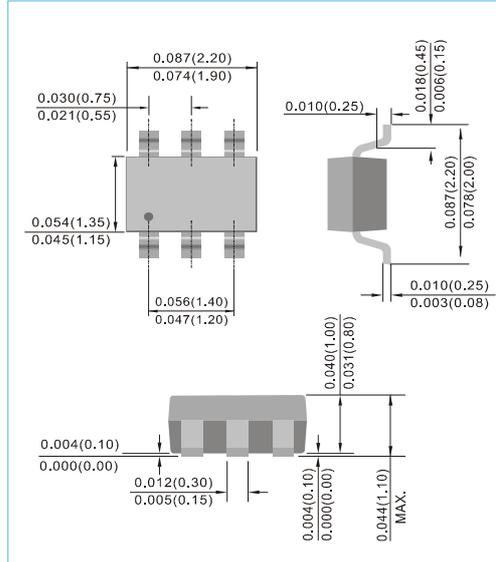
FEATURES

- Low voltage high speed switching application
- Small surface mounting type
- Low V_F and low I_R
- Three diodes in parallel installation
- Power dissipation is 200mW
- Maximum peak forward current is 200mA
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : SOT-363, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0002 ounces, 0.006 grams
- Marking : 115

SOT-363 Unit : inch(mm)



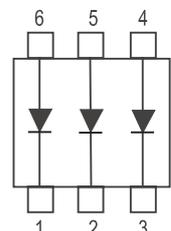
MAXIMUM RATINGS (at $T_A=25^\circ\text{C}$ unless otherwise specified)

Ratings	Symbol	Limits	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	15	V
Maximum RMS Voltage	V_{RMS}	10	V
Maximum DC Blocking Voltage	V_{DC}	15	V
Maximum Average Forward Rectified Current	I_o	0.1	A
Peak Forward Surge Current at 8.3ms single half sine-wave	I_{FSM}	1.0	A
Typical Junction Capacitance between Terminal (Note 1)	C_J	40	pF
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_A=25^\circ\text{C}$ unless otherwise specified)

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage at $I_F=1\text{mA}$ $I_F=5\text{mA}$ $I_F=100\text{mA}$	V_F	-	0.18	-	V
		-	0.23	0.30	
		-	0.35	0.50	
Maximum Average Reverse Current at $V_R=10\text{V}$	I_R	-	-	20	μA

- NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 0 volts
2. ESD sensitive product handling required





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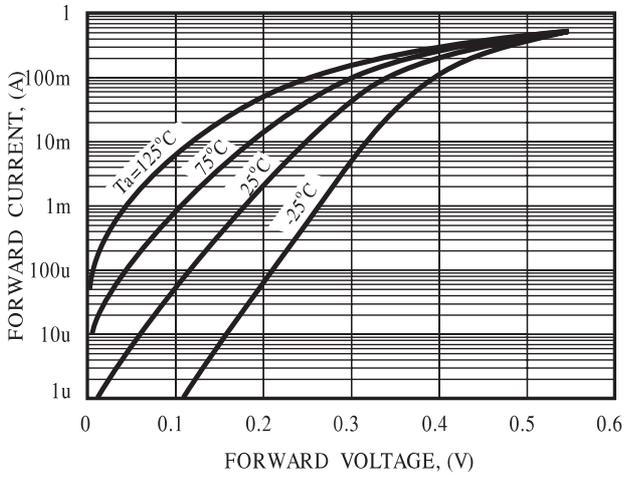


FIG. 1 FORWARD CHARACTERISTICS

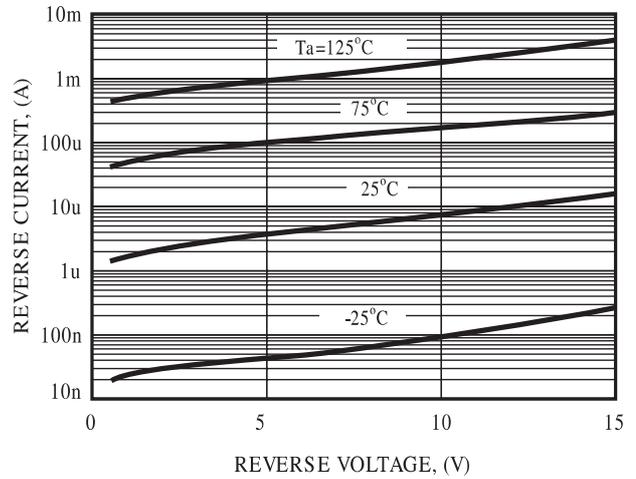


FIG. 2 - REVERSE CHARACTERISTICS

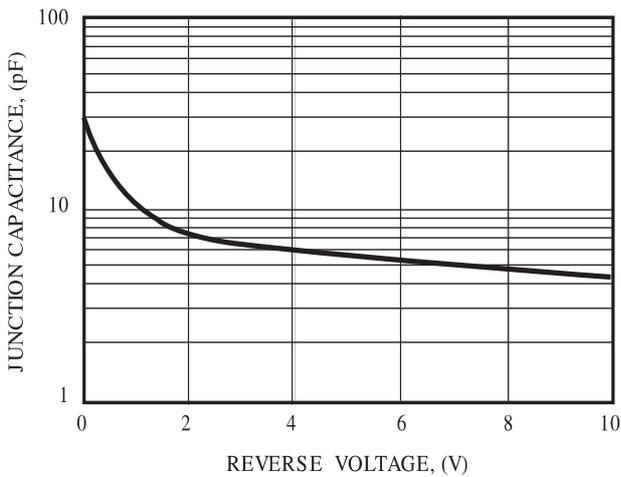


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

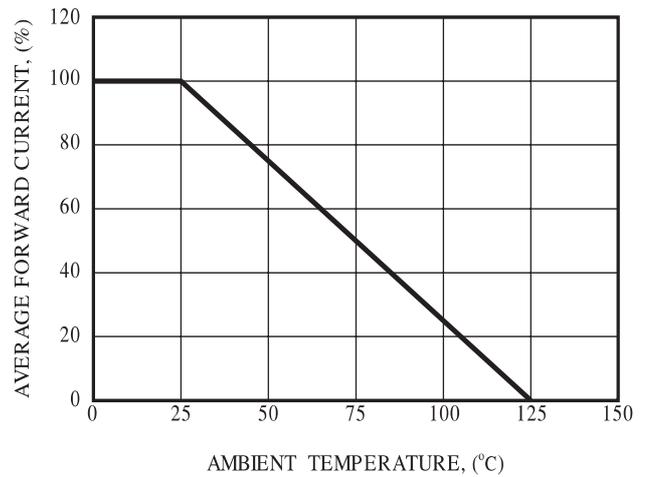


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

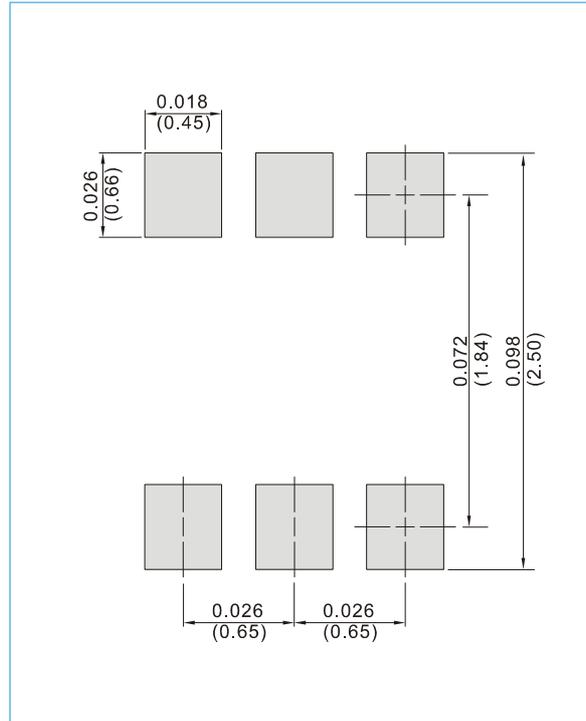


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MOUNTING PAD LAYOUT

SOT-363

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

SS0115TW_R1_00001

SS0115TW_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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