



PLASTIC SILICON RECTIFIER

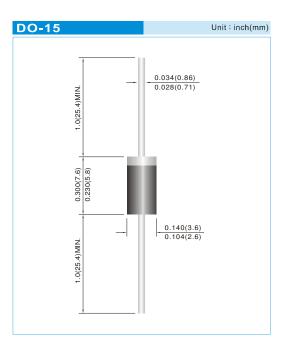
VOLTAGE 50 to 1000 Volts CURRENT 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- · Mounting Position: Any
- Weight: 0.014 ounce, 0.397 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz, Single phase, half wave, For capacitive load, derate current by 20%

PARAMETER	SYMBOL	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	500	600	800	1000	٧
Maximum RMS Voltage		35	70	140	210	280	350	420	560	700	٧
Maximum DC Blocking Voltage		50	100	200	300	400	500	600	800	1000	٧
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =60°C		1.5							А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		50						А			
Maximum Forward Voltage at 1.5A		1.4						٧			
Maximum DC Reverse Current at Rated DC Blocking $T_{\rm J}$ =25°C Voltage $T_{\rm J}$ =100°C		1 500								μА	
Typical Junction Capacitance (Notes 1)		25							pF		
Typical Thermal Resistance (Notes 2)		45 28							°C /		
Operating Junction and Storage Temperature Range		-55 to +150							°C		

NOTES:1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

2. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted





RATING AND CHARACTERISTIC CURVES

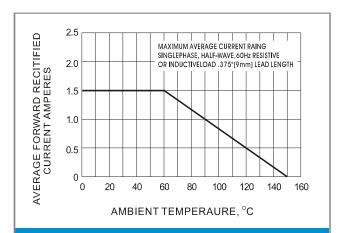


Fig.1- FORWARD CURRENT DERATING CURVE



Fig.2- MAXIMUM OVERLOAD SURGE CURRENT

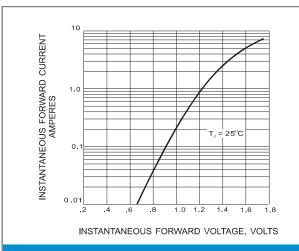


Fig.3- TYPICAL FORWARD CHARACTERISTIC

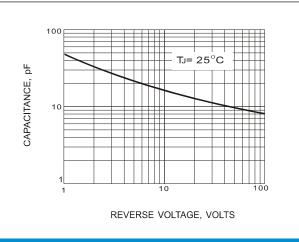


Fig.4- TYPICAL JUNCTION CAPACITANCE

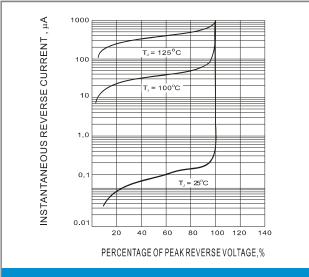


Fig.5-TYPICAL REVERSE CHARACTERISTIC





Part No_packing code_Version

1N5391_AY_00001

1N5391_AY_10001

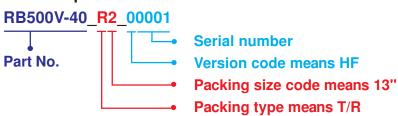
1N5391_B0_00001

1N5391_B0_10001

1N5391_R2_00001

1N5391_R2_10001

For example:



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)	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	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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