



SUPERFAST RECOVERY RECTIFIERS

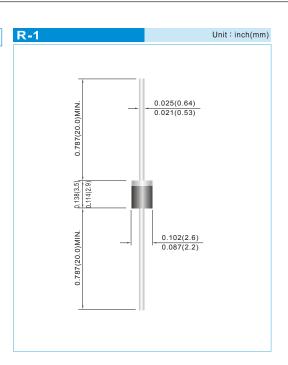
VOLTAGE 50 to 800 Volt CURRENT 1 Ampere

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- · Hermetically sealed.
- · Low leakage.
- · High surge capability.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- · Case: Molded plastic, R-1.
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026.
- · Polarity: Color Band denotes cathode end.
- · Mounting Position: Any.
- Weight: 0.0068 ounce, 0.1937 gram.



MAXIMUM RATINGSAND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	1E1	1E2	1E2A	1E3	1E3A	1E4	1E5	1E6	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	800	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.0						А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							А	
Maximum Forward Voltage at 1.0A	V _F		0.	95		1.:	1.25 1.7		2.5	٧
Maximum DC Reverse Current T_=25°C at Rated DC Blocking Voltage T_=100°C	I _R	1.0 150						μА		
Typical Junction Capacitance (Note 2)	C	17						pF		
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35						ns		
Typical Thermal Resistance	$R_{_{\theta JA}}$	60				°C / W				
Operating Junction and Storage Temperature Range		-55 to +150					°C			

NOTES:

- 1. Reverse Re covery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC





RATING AND CHARACTERISTIC CURVES

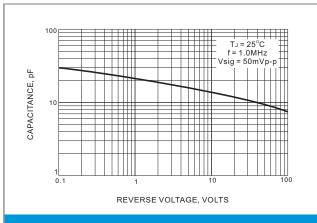


FIG.1 TYPICAL JUNCTION CAPACITANCE

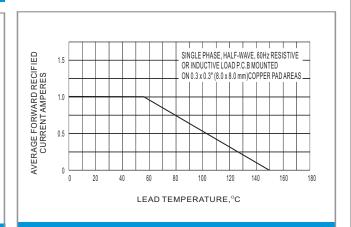


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

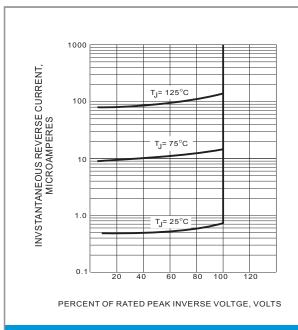


FIG.3 TYPICAL REVERSE CHARACTERISTICS

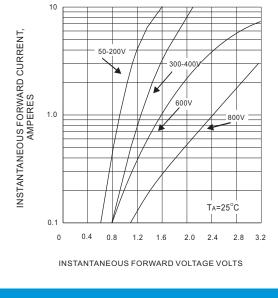


FIG.4 TYPICAL FORWARD CHARACTERISTICS

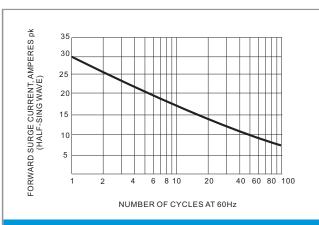


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT





Part No_packing code_Version

1E1_AX_00001

1E1_AX_10001

1E1_AY_00001

1E1_AY_10001

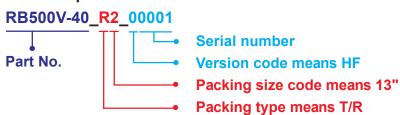
1E1_B0_00001

1E1_B0_10001

1E1_R2_00001

1E1_R2_10001

For example:



Packing Code XX				Version Code XXXXX					
Packing type	1 st 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	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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