



SURFACE MOUNT SUPERFAST RECTIFIER

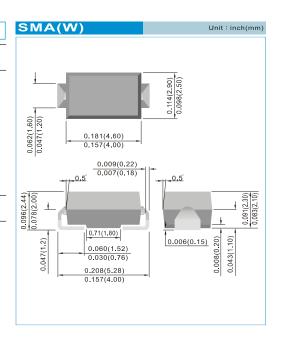
VOLTAGE 50 to 600 Volt CURRENT 1 Ampere

FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- Superfast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0024 ounce, 0.0679 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER		ES1AW	ES1BW	ES1CW	ES1DW	ES1EW	ES1GW	ES1JW	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	٧
Maximum Average Forward Current at T _L =105°C	I _{F(AV)}	1.0					Α		
Peak Forward Surge Current: 8.3ms single half sinewave superimposed on rated load	I _{FSM}	30						А	
Maximum Forward Voltage at 1.0A	V _F		0.9	95	1.25 1.			1.7	٧
Maximum DC Reverse Current at Rated DC $T_J = 25^{\circ}C$ Blocking Voltage $T_J = 100^{\circ}C$		1.0 10						μА	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35				ns			
Typical Junction Capacitance (Note 2)	C	7.0				pF			
Typical Thermal Resistance (Note 3)	R _{eJL}	35				°C / W			
Operating Junction and Storage Temperature Range		-55 to +150						°C	

NOTES:

- 1.Reverse Recovery Tset Conditions:I_F=0.5A,I_R=1.0A,Irr=0.25A
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
- $3.8.0 \, \text{mm}^2 (\ .013 \, \text{mm thick}\)$ land areas.





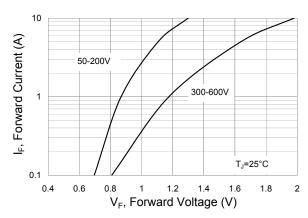


Fig.1 Typical Forward Characteristics

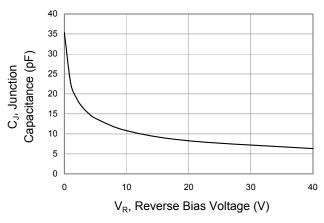


Fig.3 Typical Junction Capacitance

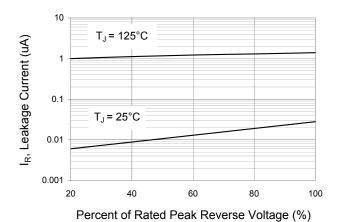


Fig.5 Typical Reverse Characteristics

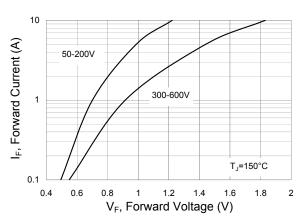


Fig.2 Typical Forward Characteristics

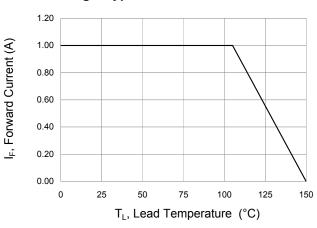
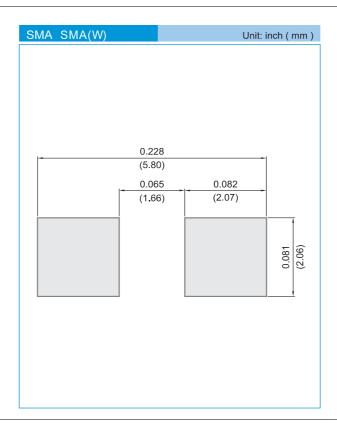


Fig.4 Forward Current Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel

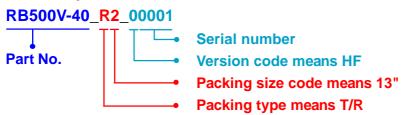




Part No_packing code_Version

ES1AW_R1_00001 ES1AW_R2_00001

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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