



SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE 50 to 600 Volt CURRENT 1 Ampere

FEATURES

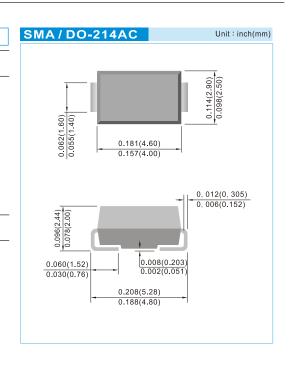
- · For surface mounted applications in order to optimize board space
- · Built-in strain relief
- · Easy pick and place
- · Superfast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- Lead free in compliance 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: 0.0023 ounces, 0.0679 grams







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	SYMBOL	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _L =120°C	I _{F(AV)}	1						А	
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							А
Maximum Forward Voltage at 1A	V _F	0.95 1.25 1.			1.7	V			
Maximum DC Reverse Current at Rated DC Blocking T_j =25°C Voltage T_j =100°C	I _R	1 150						μА	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35						ns	
Typical Junction Capacitance (Note 2)	C	7						pF	
Typica Thermal Resistance (Note 3)	R _{eJL}	35				°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C			

NOTES:

- 1.Reverse Recovery Tset Conditions: I_F =0.5A, I_R =1.0A, I_r =0.25A
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 volt
- 3.8.0mm²(0.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

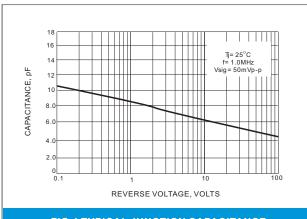


FIG.1 TYPICAL JUNCTION CAPACITANCE

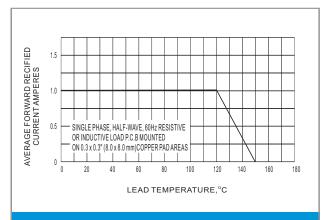


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

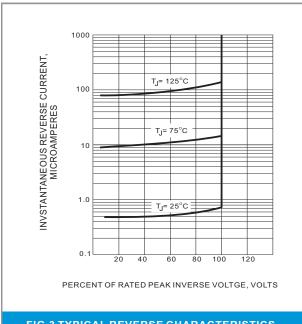


FIG.3 TYPICAL REVERSE CHARACTERISTICS

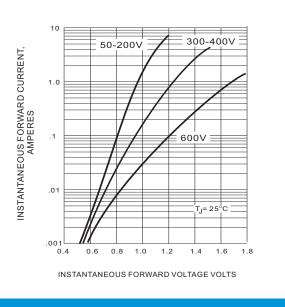
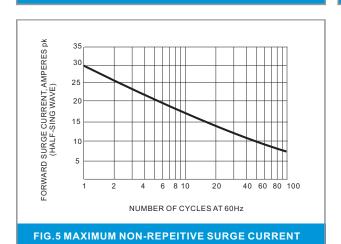


FIG.4 TYPICAL FORWARD CHARACTERISTICS

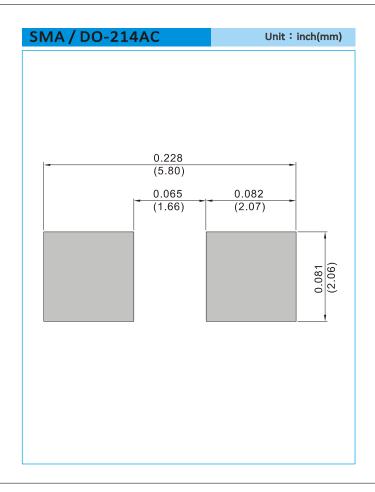


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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





Part No_packing code_Version

ES1A_R1_00001 ES1A_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	Х						
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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