ES1A-AU~ES1J-AU

SURFACE MOUNT SUPERFAST RECTIFIER SMA/DO-214AC Unit:inch(mm) VOLTAGE 50 to 600 Volts CURRENT **1** Amperes **FEATURES** · For surface mounted applications .114(2.90) · Low profile package · Built-in strain relief · Easy pick and place 0.062(1.60) · Superfast recovery times for high efficiency. · Plastic package has Underwriters Laboratory 0.181(4.60) Flammability Classification 94V-O · Glass passivated junction Acgire quality system certificate : TS16949 0.012(0.305) 0.006(0.152) • AEC-Q101 qualified 0.096(2.44) · Lead free in comply with EU RoHS 2002/95/EC directives. 0.008(0.203) 0.060(1.52) **MECHANICAL DATA** Case: JEDEC DO-214AC molded plastic 0.208(5.28) • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 · Polarity: Indicated by cathode band

Standard packaging: 12mm tape (EIA-481)
Weight: 0.0023 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		ES1A-AU	ES1B-AU	ES1C-AU	ES1D-AU	ES1E-AU	ES1G-AU	ES1J-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	v
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _L =120°C	I _{F(AV)}	1							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{fsm}	30							А
Maximum Forward Voltage at 1A	V _F	0.95 1.25 1.7					1.7	V	
Maximum DC Reverse Current Tj= 25°C at Rated DC Blocking Voltage Tj=100°C	I _R	1 150							μΑ
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35							ns
Typical Junction Capacitance (Note 2)	C	7							рF
Typica Thermal Resistance (Note 3)	$R_{_{\theta JL}}$	35							°C / W
Operating Junction and Storage Temperature Range	T_J,T _{stg}	-55 to +150							°C

NOTES:

1.Reverse Recovery Tset Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{T}=0.25A$ 2.Measured at 1.0MHz and applied reverse voltage of 4.0 volts. 3.8.0mm²(.013mm thick) land areas.



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RATING AND CHARACTERISTIC CURVES





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 1.8Kper 7" plastic Reel





For example :

RB500V-40_R2_00001

Serial

Part No.

Serial numberVersion code means HF

- version code means m
- Packing size code means 13"
- Packing type means T/R

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		
T/B	Α	N/A	0	HF	0	serial number		
T/R	R	7"	1	RoHS	1	serial number		
B/P	В	13"	2					
T/P	т	26mm	X					
TRR	S	52mm	Y					
TRL	L	PBCU	U					
FORMING	F	PBCD	D					

Part No_packing code_Version

ES1A-AU_R1_000A1 ES1A-AU_R1_100A1 ES1A-AU_R2_000A1 ES1A-AU_R2_100A1 



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