



ES1A THRU ES1J

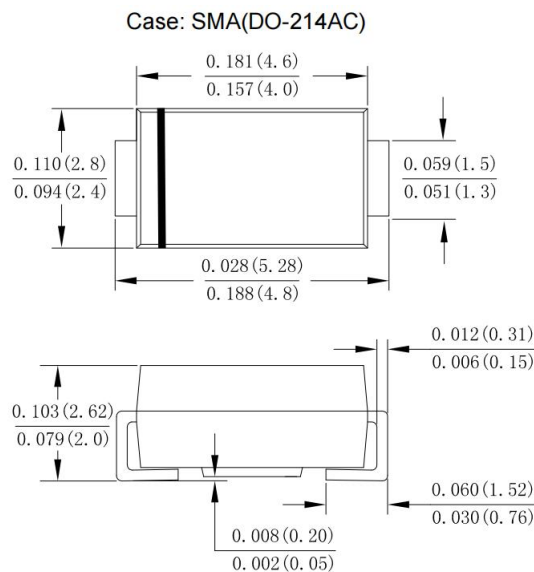
1.0AMP Surface Mount Glass Superfast Recovery Rectifier

FEATURES

- * Low Power Loss, High Efficiency
- * Ideally Suited for Automatic Assembly
- * Guard Ring Die Construction

MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity: Color band dentes cathode end
- * Mounting position: Any
- * Making: Type Number



Dimensions in inches and (millimeters)

MAXIMUM RATINGS(Ta=25℃ Unless otherwise specified)

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

Type Number	SYMBOL	ES1A	ES1B	ES1D	ES1G	ES1J	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	V
Average Rectified Output Curren @TL =100 ℃	IF (AV)	1.0					A
Peak Forward Surge Current 8.3ms Single half sine -wave superimposed on rated load (JEDEC Method)	IFSM	35					A
Rating for fusing (t<8.3ms)	I ² t	5.08					A ² s
Forward Voltage @IF=1.0A	VFM	0.95	1.3		1.7		V
Peak Reverse Current @TA =25 ℃	IR	5.0					uA
At Rated DC Blocking Voltage @TA =125 ℃		200					
Maximum Reverse Recovery Time (Note1)	Trr	35					ns
Typical Junction Capacitance (Note 2)	CJ	20	7				pF
Typical Thermal Resistance Junction to Ambient	RθJA	34					℃/W
Operating Temperature Range	TJ	-55 to+150					℃
Storage Temperature Range	TSTG	-55 to +150					℃

Note:

1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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■ TYPICAL CHARACTERISTICS

Fig. 1 Forward Current Derating Curve

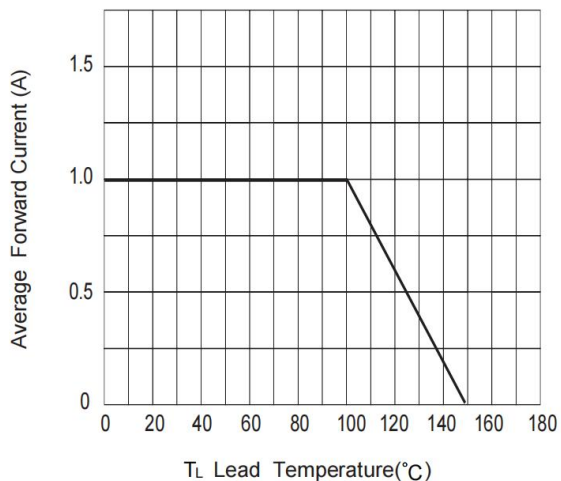


Fig. 2 Typ. Forward Characteristics

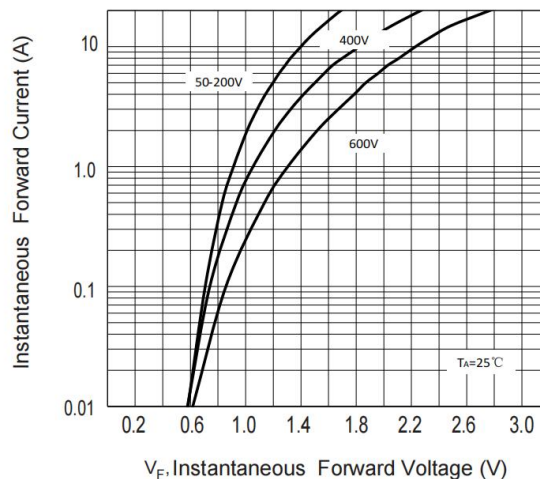


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

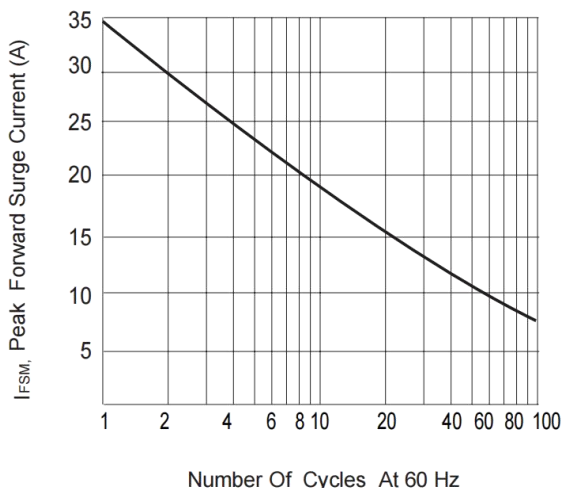


Fig. 4 Typical Junction Capacitance

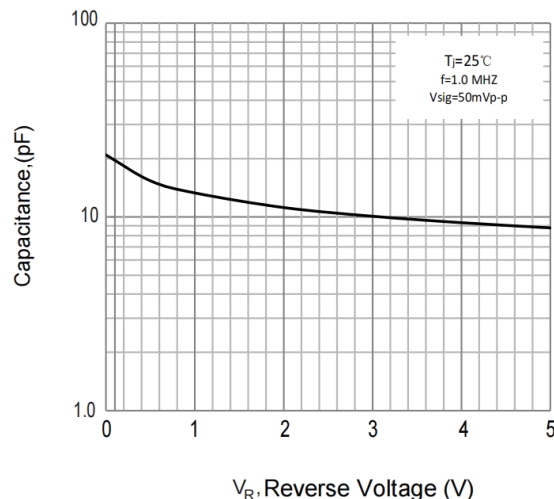


Fig. 5 Typical Reverse Characteristics

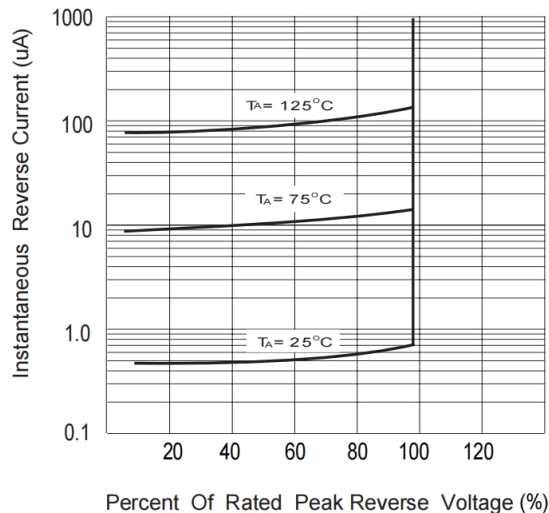


Fig. 6 Mounting PAD Layout

