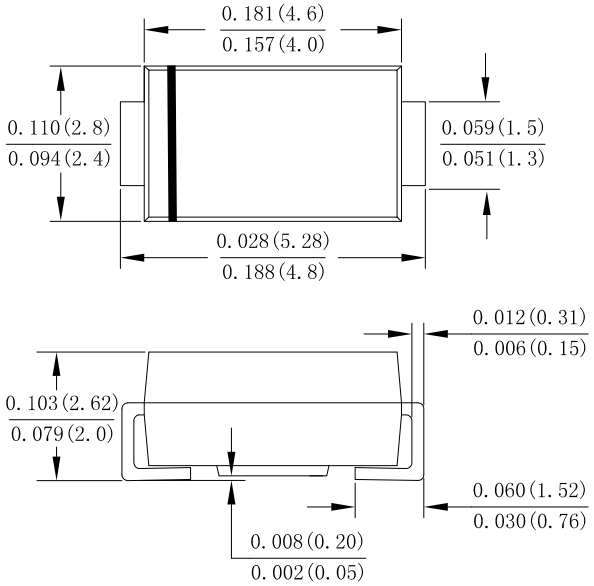
ES1A THRU ES1J

1.0AMP Surface Mount Glass Superfast Recovery Rectifier

Features

- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V - 0

Case: SMA(DO-214AC)



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number

Maximum Ratings and Electrical Characteristics

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	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Average Rectified Output Current @T_L =100 ℃	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35					A
Rating for fusing (t<8.3ms)	I^2t	5.08					A^2s
Forward Voltage @IF=1.0A	V_{FM}	0.95			1.3	1.7	V
Peak Reverse Current @T_A=25 ℃	I_R	5.0					uA
At Rated DC Blocking Voltage @T_A=125 ℃		200					
Maximum Reverse Recovery Time (Note1)	Trr	35					ns
Typical Junction Capacitance (Note 2)	C_J	20			7		pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	34					℃/W
Operating Temperature Range	T_J	-55 to+150					℃
Storage Temperature Range	T_{STG}	-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

Fig. 1 Forward Current Derating Curve

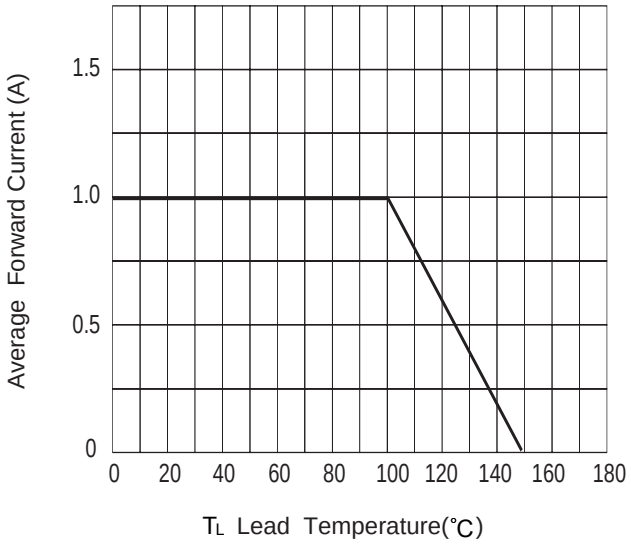


Fig. 2 Typ. Forward Characteristics

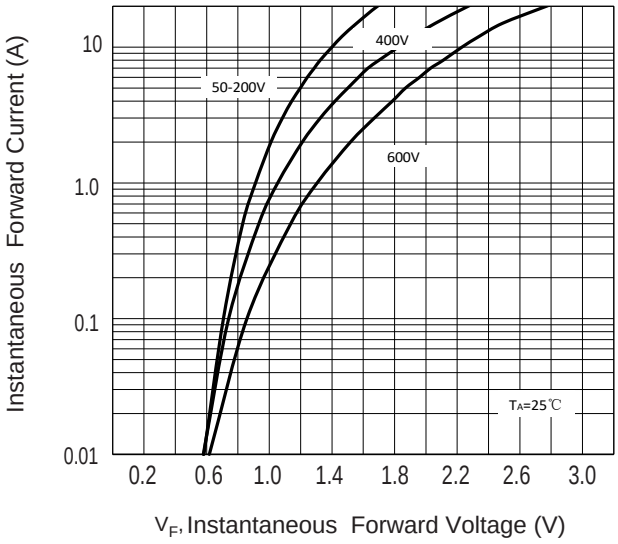


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

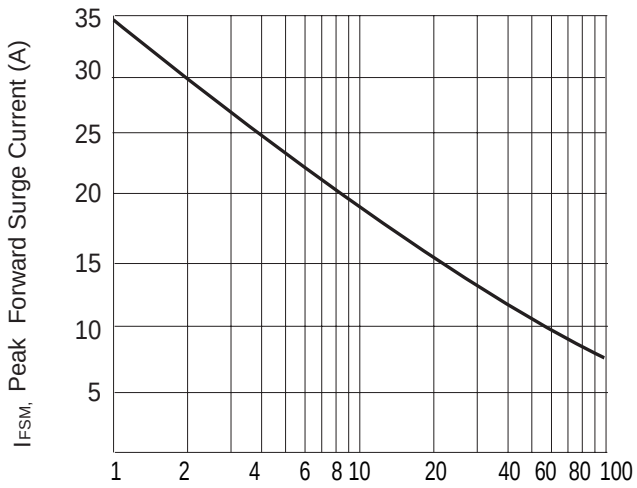


Fig.4 Typical Junction Capacitance

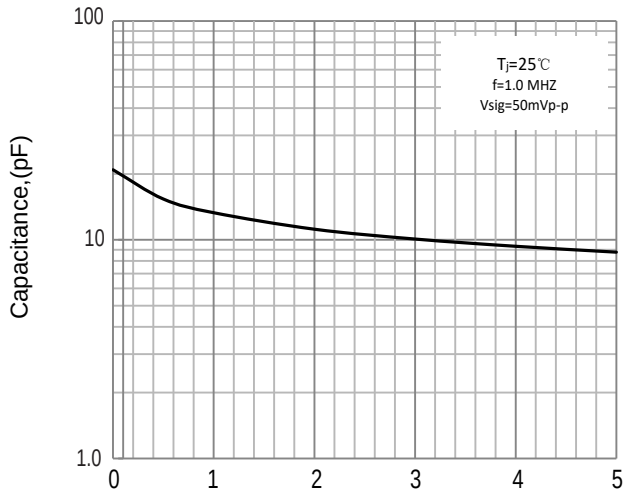


Fig.5 Typical Reverse Chracteristics

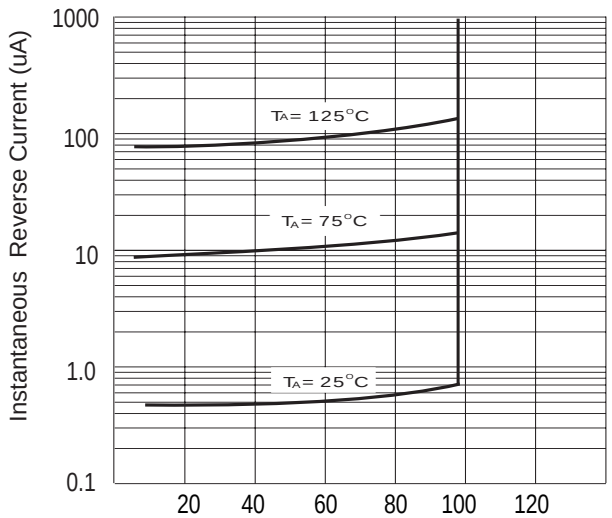
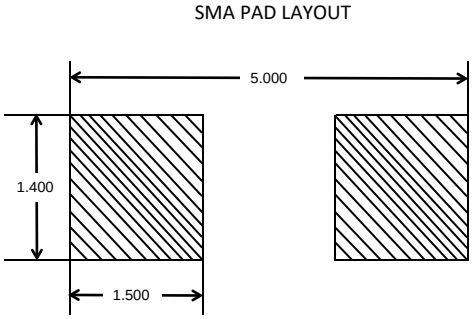


Fig.6 Mounting PAD Layout



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