

1.0A Surface Mount Super Fast Rectifier

Features

- Low profile surface mounted package
- Glass passivated junction
- Ultra fast recovery time for high efficiency
- Plastic package has underwriters laboratory flammability classification 94V-0
- High temperature soldering: 250 °C /10 seconds at terminals
- RoHS compliant



SMA

Maximum Ratings (T Ambient=25°C unless noted)

Symbol	Description	ES1A	ES1B	ES1D	ES1F	ES1G	ES1J	ES1K	Unit	Conditions
V RRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	300	400	600	800	V	
VRMS	Maximum RMS Voltage	35	70	140	210	280	420	560	V	
V DC	Maximum DC Blocking Voltage	50	100	200	300	400	600	800	V	
lav	Maximum Average Forward Rectified Current	1.0							А	TL=110°C
İfsm	Peak Forward Surge Current	30 25							А	8.3ms single half sine- wave superimposed on rated load (JEDEC Method)
ТЈ,Тѕтс	Operating Junction and Storage Temperature Range	-55 to 150							°C	

Note: Single phase half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%



Electrical Characteristics (T Ambient=25°C unless noted)

Symbol	Description	ES1A	ES1B	ES1D	ES1F	ES1G	ES1J	ES1K	Unit	Conditions
VF	Maximum Instantaneous Forward Voltage	0.95			1.25		1.7	2.2	V	IF=1.0 A
lR	Maximum DC Reverse Current at	5								TA=25 °C
	Rated DC Blocking Voltage	50								TA=125 °C
Trr	Typical Reverse Recovery Time	35							nS	IF=0.5A, IR=1.0A, Irr=0.25A
C¹	Typical Junction Capacitance	10							pF	Measured at 1.0 MHZ and Applied Vr = 4.0 volts.
R ₀ -JA	Maximum Thermal Resistance	34							° C/W	Mounted on 0.2" x 0.2" (5mmx5mm) copper pad area

Note: Single phase half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Typical Characteristics Curves

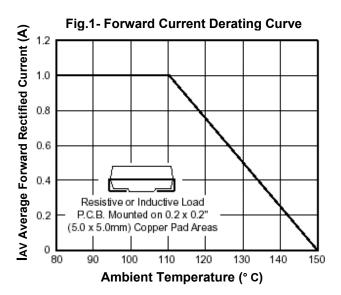


Fig.2- Max. Non-Repetitive Forward Surge Current

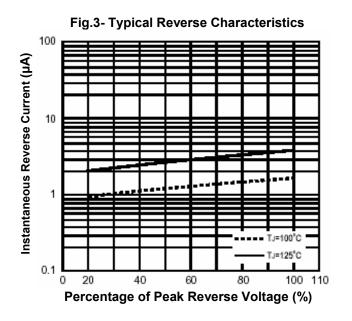
8.3ms Single Half Sine-Wave
(JEDEC Method)

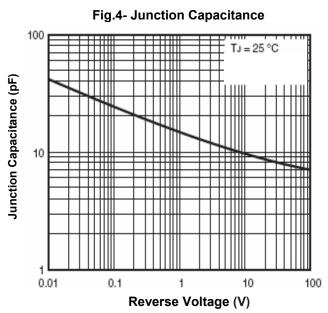
ES1A-- ES1J

10

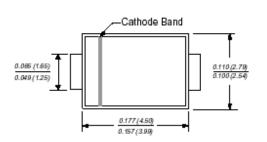
Number of Cycles at 60Hz



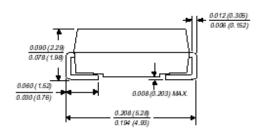




Dimensions in inch (mm)







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