

**SURFACE MOUNT
SUPER FAST RECOVERY RECTIFIERS**

REVERSE VOLTAGE - 50 to 600 Volts
FORWARD CURRENT - 2.0 Amperes

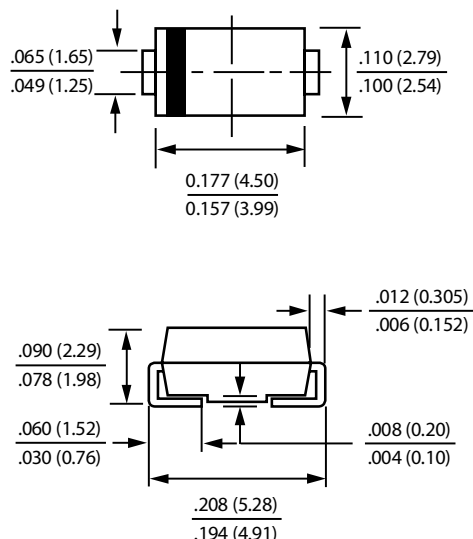
FEATURES

- Glass Passivation Junction
- For surface mounted applications
- Low reverse leakage current
- High surge current capability
- High current capability
- Component in accordance of RoHS 2002/95/EC

MECHANICAL DATA

- Case : SMA
- Polarity : Color band denotes cathode
- Weight : 0.064 grams
- Mounting position : Any

SMA



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ES2AA	ES2BA	ES2CA	ES2DA	ES2EA	ES2GA	ES2JA	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	V
Maximum average forward rectified current	IF	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	50.0							A
Maximum instantaneous I _F =2A@25	V _F	0.98			1.30		1.75		V
Maximum DC Reverse Current @TA=25 at Rated DC Blocking Voltage @TA=100	I _R	5 100							uA
Typical Junction Capacitance(Note1)	C _J	40			25				pF
Maximum Reverse Recovery Time(Note2)	T _{rr}	35							nS
Operating Temperature Range	T _J	-55 to +150							
Storage Temperature Range	T _{STG}	-55 to +150							

Note1: Measured 1.0MHZ and applied reverse voltage of 4.0 VDC

Note2: Measured with IF=0.5A, IR=1A, IRR=0.25A

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

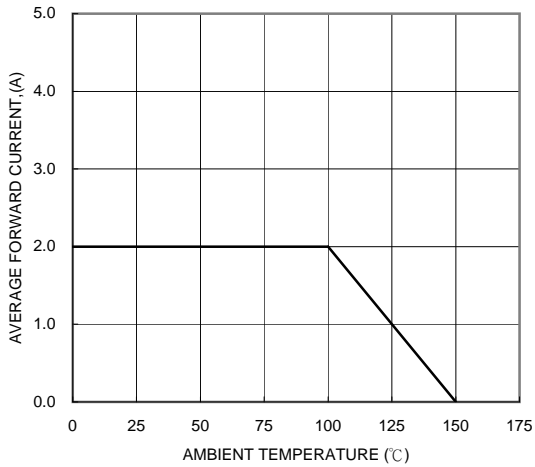


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

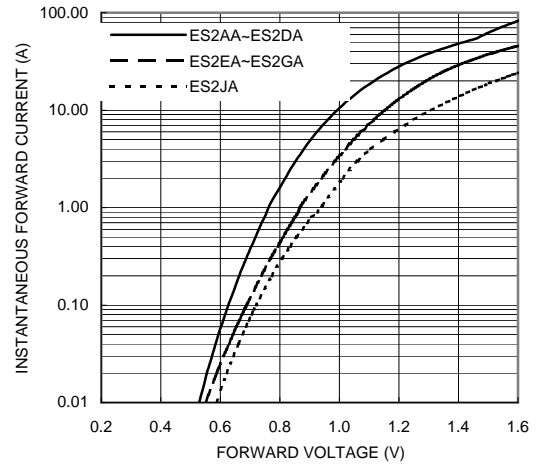


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

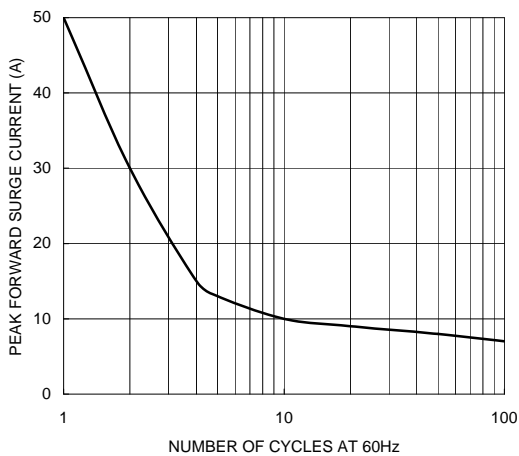


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

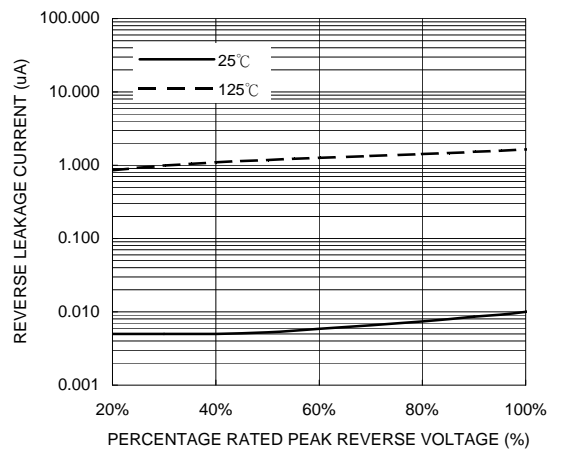


FIG. 5-TYPICAL JUNCTION CAPACITANCE

