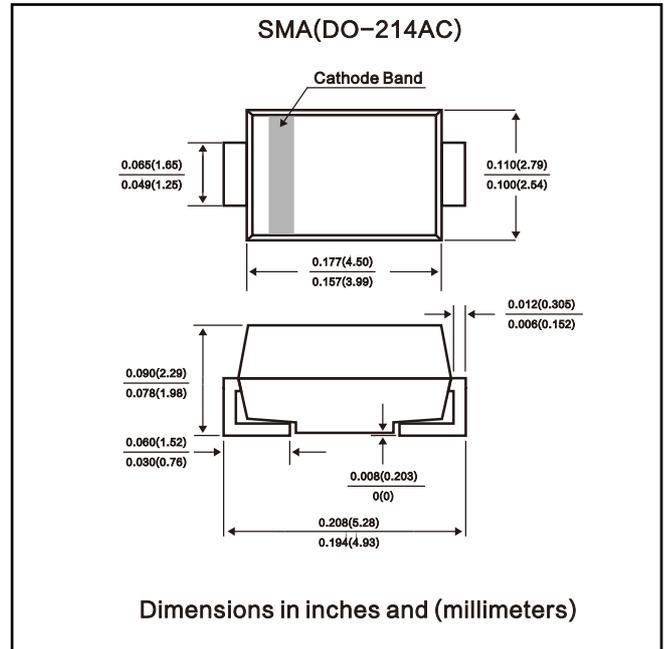


FEATURES

- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

Case: DO-214AC(SMA) Molded Plastic
 Polarity: Color band denotes cathode
 Weight: 0.003 ounces, 0.093 grams
 Mounting position: Any


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	ES2A	ES2B	ES2D	ES2G	ES2J	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
Maximum Average Forward Rectified Current @ T _A =50 °C	I _(AV)	2.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	75					A
Peak Forward Voltage at 2.0A DC	V _F	0.95		1.25		1.70	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _J =25°C @ T _J =100°C	I _R	5.0			100		μA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	35					nS
Typical Junction Capacitance (Note2)	C _J	40			30		pF
Typical Thermal Resistance (Note3)	R _{JA}	25					°C/W
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES: 1.Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction to ambient.

FIG. 1 – FORWARD CURRENT DERATING CURVE

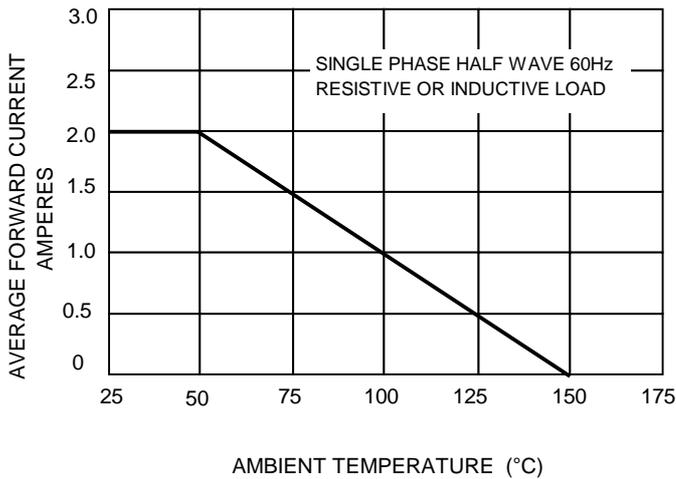


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

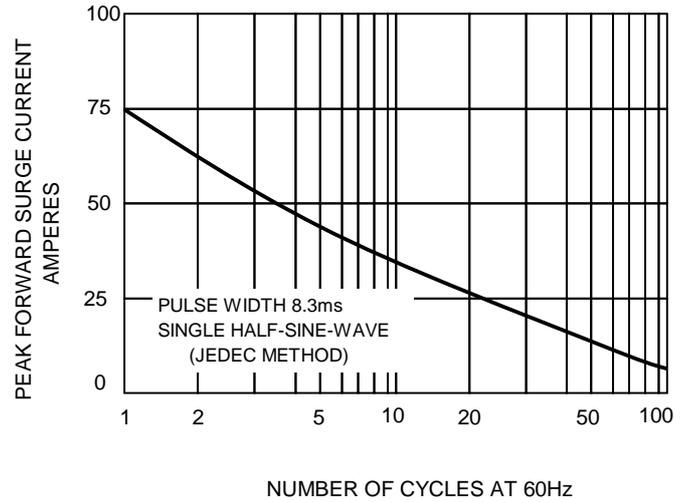


FIG.3 – TYPICAL JUNCTION CAPACITANCE

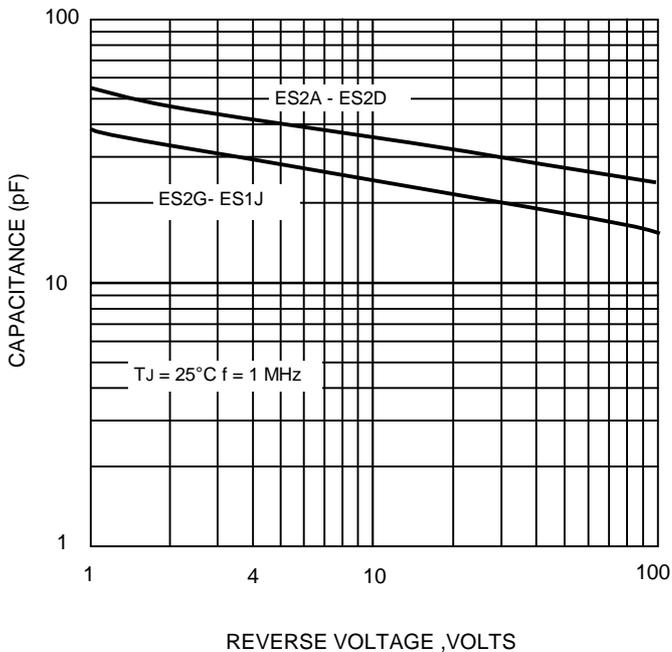


FIG.4-TYPICAL FORWARD CHARACTERISTICS

