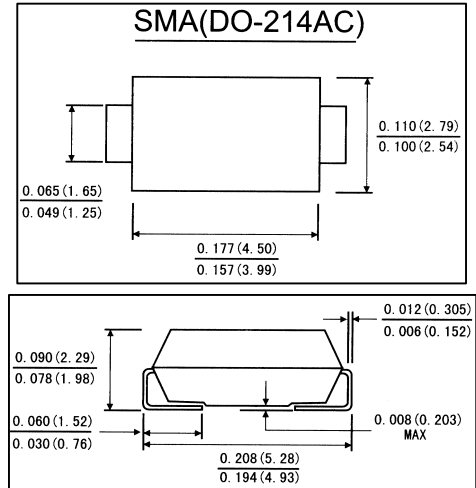


FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief , ideal for automated placement
- Fast switching speed
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High temperature soldering guaranteed: 250°C/10 seconds, at terminals

MECHANICAL DATA

- Case:** JEDEC SMA(DO-214AC) molded plastic
- Terminals:** Plated axial leads,solderable per MIL-STD-750,method 2026
- Polarity:** Color band denotes cathode end
- Weight:** 0.002 ounce, 0.064 gram



Dimensions in inches and (millimeters)

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%)

		Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	Units
Maximum Recurrent peak reverse voltage		VRRM	50	100	200	400	600	800	Volts
Maximum RMS voltage		VRMS	35	70	140	280	420	560	Volts
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	Volts
Maximum average forward current of Tl=90℃		l(AV)	1.0						Amp
Peak forward surge current (8.3ms single half sing wave superimposed on rated load (JEDEC method) at Tl=90℃		IFSM	30.0						Amps
Maximum instantaneous forward voltage at 1.0 A		VF	1.30						Volts
Maximum reverse recovery time(Note 1) current at rated DC Blocking Voltage	TA=25℃	IR	5.0						μ A
	TA=125℃		50						
Typical Thermal Resistance(Note 3)		θJL	27.0			30.0			℃/W
		θJA	25.0			85.0			
Typical reverse recovery time(Note 2)		Trr	150.0				250	500	nS
Operating and storage temperature range		TJ TSTG	-55 to +150						℃

Notes: 1.Test conditions:IF=0.5A,IR=1.0A,Irr=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

3.Thermal resistance from junction to ambient and from junction to lead mounted on PCB mounted on

0.2 X 0.2"(5.0 X 5.0mm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES RS1A THRU RS1K

FIG.1-FORWARD CURRENT

DERATING CURVE

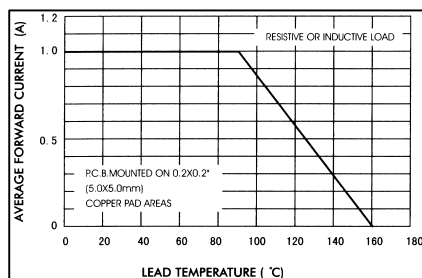


FIG.2-MAXIMUM NON-REPETITIVE

FORWARD SURGE CURRENT

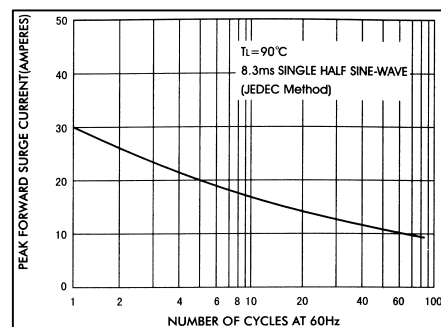


FIG.3-TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTICS

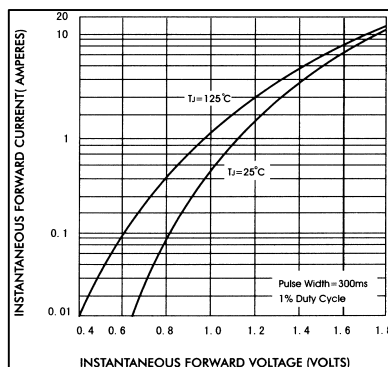


FIG.4-TYPICAL JUNCTION CAPACITANCE

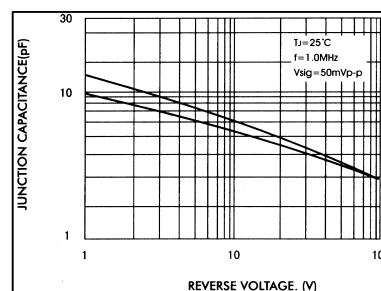


FIG.5-TYPICAL REVERSE CHARACTERISTICS

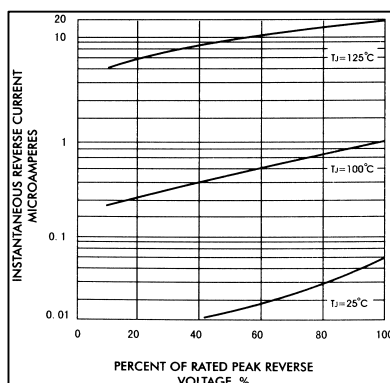


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

