

SURFACE MOUNT RECTIFIER

FEATURES

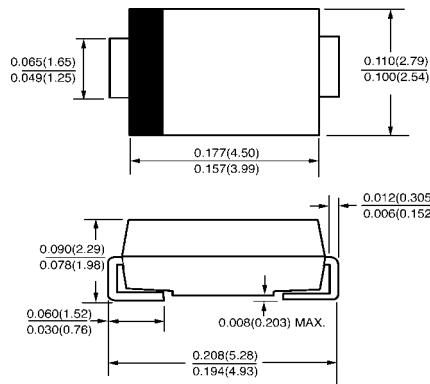
- ◇ Plastic package has underwriters laborator flammability classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief,ideal for automated placement
- ◇ Glass passivated chip junction
- ◇ High temperature soldering:
250°C/10 seconds at terminals

MECHANICAL DATA

- ◇ Case:JEDEC DO-214AC,molded plastic over passivated chip
- ◇ Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 gram

REVERSE VOLTAGE: 50 --- 1000 V
CURRENT: 1.0A

DO - 214AC(SMA)



inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RWS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ T _L =90°C	I _{F(AV)}					1.0			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}					30.0			A
Maximum instantaneous forward voltage at 1.0A	V _F				1.30				V
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R				5.0				µA
					50.0				
Maximum reverse recovery time (NOTE 1)	t _{rr}			150		250	500		ns
Typical junction capacitance (NOTE 2)	C _J				10		7.0		pF
Typical thermal resistance (NOTE 3)	R _{θJA} R _{θJL}				105				°C/W
					32				
Operating junction and storage temperature range	T _J T _{STG}				- 55 ----- + 150				°C

NOTE: 1.Reverse recovery time test conditions:I_F=0.5A,I_R=1.0A,I_{rr}=0.25A

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

3. Thermal resistance from junction to ambient and junction to lead P.C.B.mounted on 0.2"X0.2"(5.0X5.0mm²) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

RS1A---RS1M

Fig. 1 — Forward Current Derating Curve

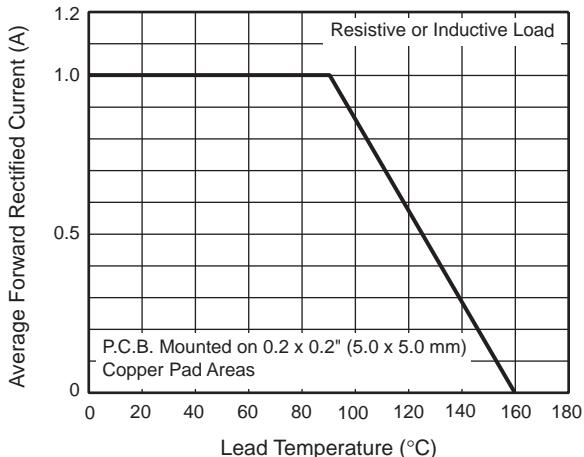


Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

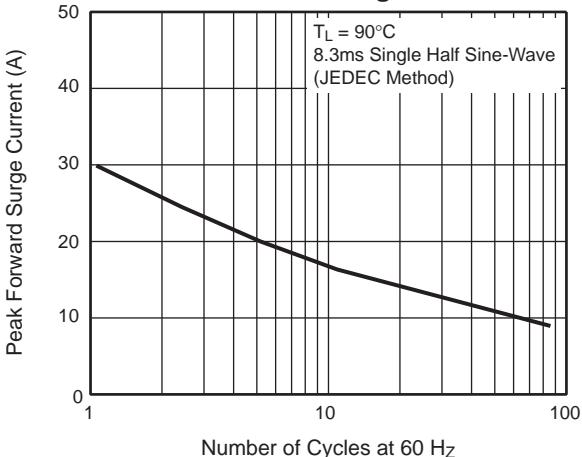


Fig. 3 — Typical Instantaneous Forward Characteristics

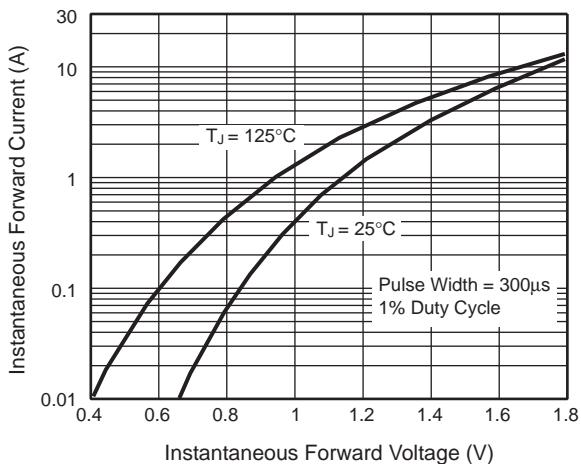


Fig. 4 — Typical Reverse Characteristics

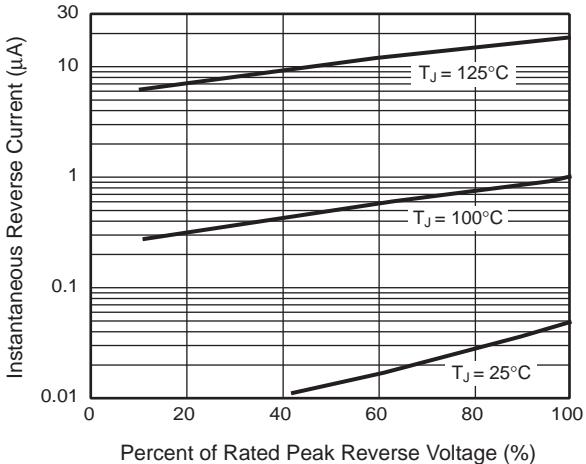


Fig. 5 — Typical Junction Capacitance

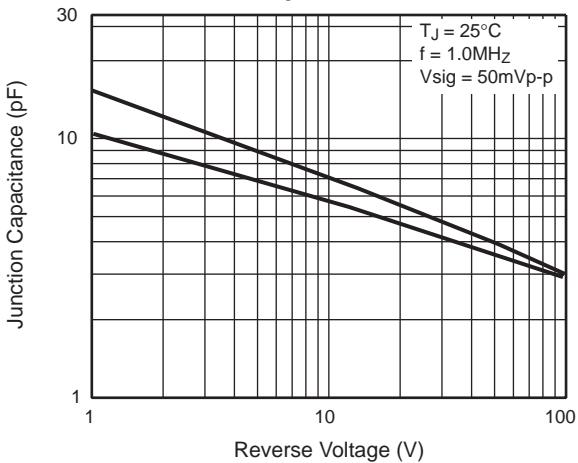


Fig. 6 — Typical Transient Thermal Impedance

