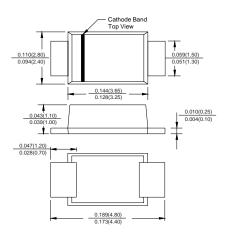
RS1AAS THRU RS1MAS

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

SMAS



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Fast switching for high efficiency
- Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guarantéed: 260°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: SMAS molded plastic body over passivated chip **Terminals**: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0011 ounce, 0.029 grams

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 current derate by 20%.

	SYMBOLS	RS1AAS	RS1BAS	RS1DAS	RS1GAS	RS1JAS	RS1KAS	RS1MAS	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=110°C	l(AV)	1.0							А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	İfsm	30.0							А
Maximum instantaneous forward voltage at 1.0A	VF	1.3							V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	5.0 50.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr			150		250	500)	ns
Typical junction capacitance (NOTE 2)	Сı		15.0						
Typical thermal resistance (NOTE 3)	RθJA RθJL	90.0 30.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

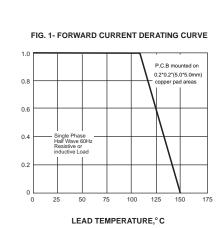
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

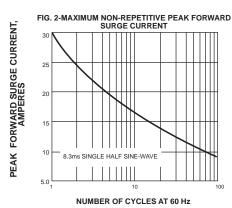
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

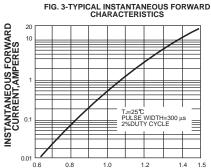


RATINGS AND CHARACTERISTIC CURVES RS1AAS THRU RS1MAS

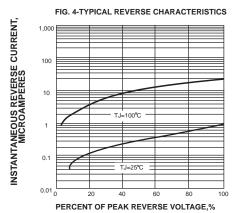




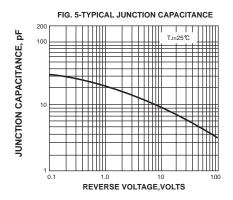


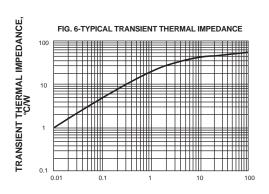






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

