RS2A THUR RS2M
2.0 AMP SURFACE MOUNT FAST RECOVER RECTIFIERS

General description
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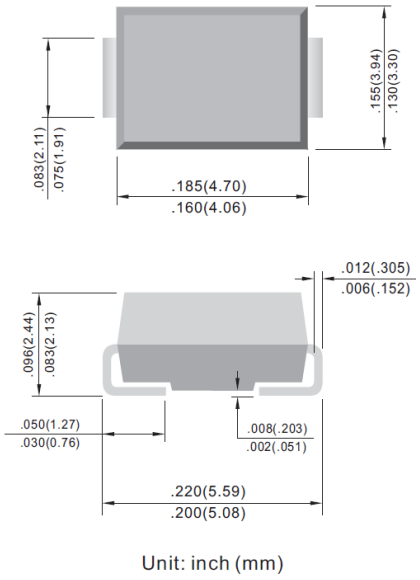
SMB/DO214AA



Unit: inch (mm)

FEATURES
- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability High temperature soldering g
- 250 C/10 seconds at terminals

MECHANICAL DATA
- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end Mounting
- Position: Any
- Weight :0.005 ounce, 0.138 grams

Rating 25 C ambient temperature unless otherwise specified.

TYPE NUMBER	*SYMBOLS*	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Marking Code	Mark	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	N/A
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=90 C	I(AV)	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0							A
Maximum instantaneous forward voltage at 3.0A	VF	1.3							V
Maximum DC reverse current TA=25 C at rated DC blocking voltage TA=100 C	IR	5.0 50.0							μA
Maximum reverse recovery time (NOTE 1)		150				250	500		nS
Typical junction capacitance (NOTE 2)	CJ	50.0							pF
Typical thermal resistance (NOTE 3)	RθJA	20							℃/W
Operating junction and storage temperature range	TJ,TSTG	-55 to +150							℃

Note:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

Rating And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

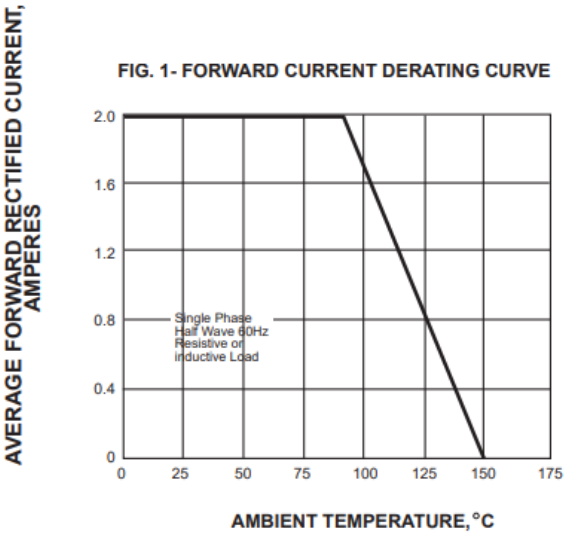


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

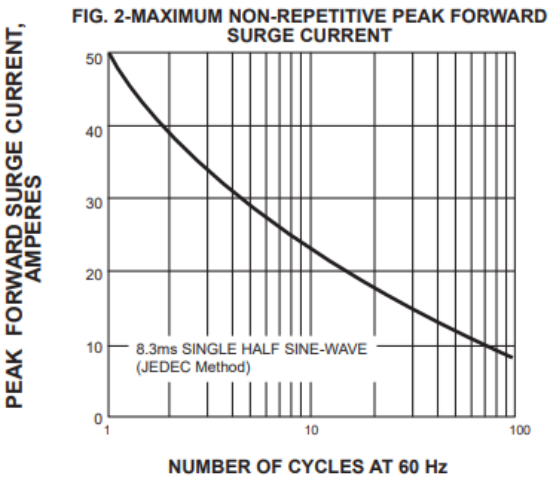


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

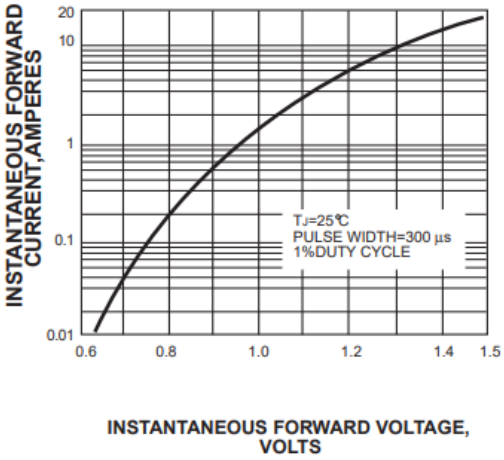


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

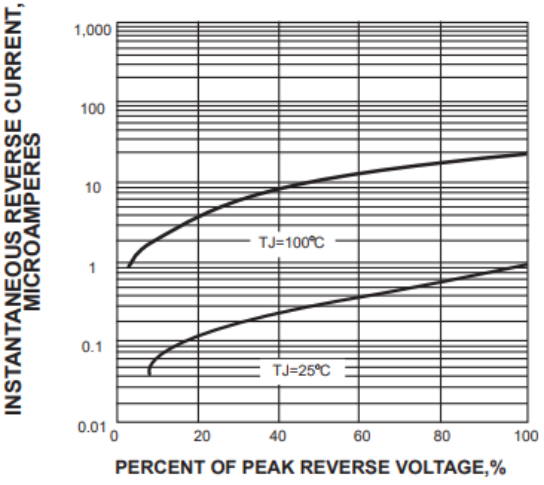


FIG. 5-TYPICAL JUNCTION CAPACITANCE

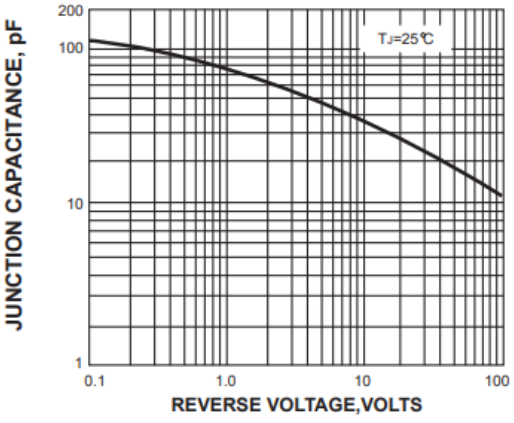
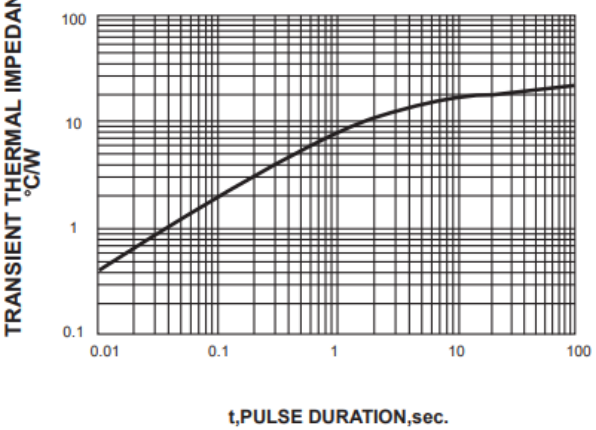


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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