

Surface Mount Rectifiers

RS2AHM--RS2MHM

FEATURES

- Low profile package
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Plastic package has underwriters, laborator flammability classification 94V-0
- High temperature soldering: 250°C/10 seconds at terminals
- This product not contains Antimony and Bromine compounds (**rFR**)



Lead-free



MECHANICAL DATA

- Case :JEDEC SMA, molded plastic over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: color band denotes cathode end

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RS2A HM	RS2B HM	RS2D HM	RS2G HM	RS2J HM	RS2K HM	RS2M HM	UNITS
Marking code		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	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 $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	50							A

Thermal Characteristics

Characteristic	Symbol	RS2A HM	RS2B HM	RS2D HM	RS2G HM	RS2J HM	RS2K HM	RS2M HM	UNITS
Typical junction capacitance (Note2)	C_J	18							p F
Typical thermal resistance (Note3)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							°C/W
Operating junction and storage temperature range	T_J T_{STG}	- 55 ----- + 150							°C



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Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	RS2A HM	RS2B HM	RS2D HM	RS2G HM	RS2J HM	RS2K HM	RS2M HM	UNITS
Maximum instantaneous forward voltage at2.0 A	V _F	1.30							V
Maximum reverse current @T _A =25 °C	I _R	5.0							μ A
at rated DC blocking voltage @T _A =125°C		200							
Typical reverse recovery time (Note1)	t _{rr}	150				250	500		ns

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

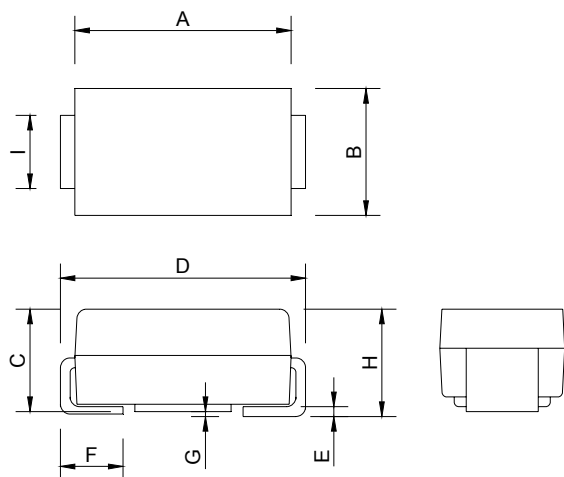
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

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

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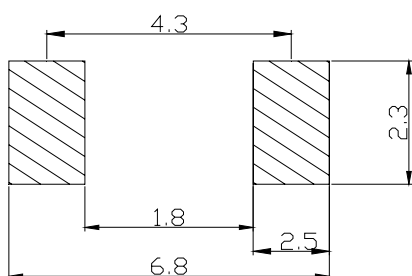
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PACKAGE OUTLINE DIMENSIONS



DO-214AA(SMB)		
Dim	Min	Max
A	4.30	4.70
B	3.30	3.70
C	2.00	2.30
D	5.05	5.55
E	0.10	0.30
F	0.95	1.55
G	0.20MAX	
H	2.10	2.50
I	1.85	2.15
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
RS2AHM--RS2MHM	DO-214AA(SMB)	3000/Tape&Reel

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FIG.1 – FORWARD DERATING CURVE

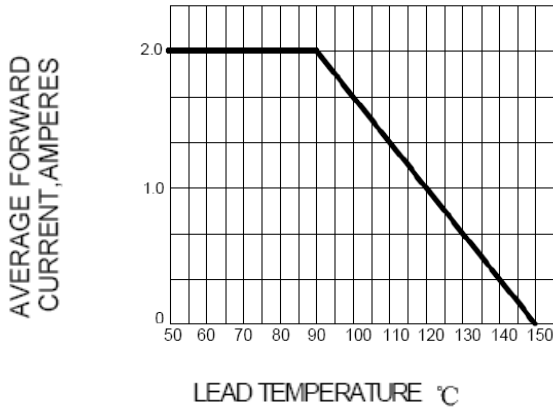


FIG.2 PEAK FORWARD SURGE CURRENT

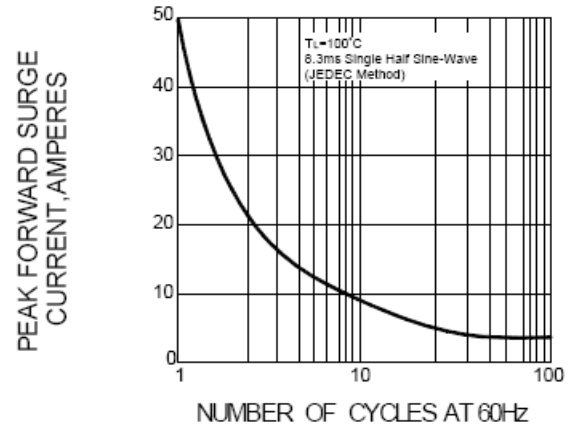


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

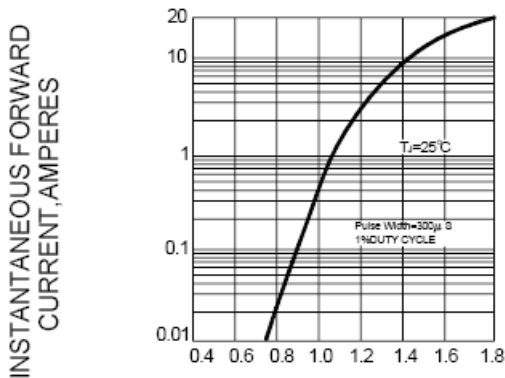


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

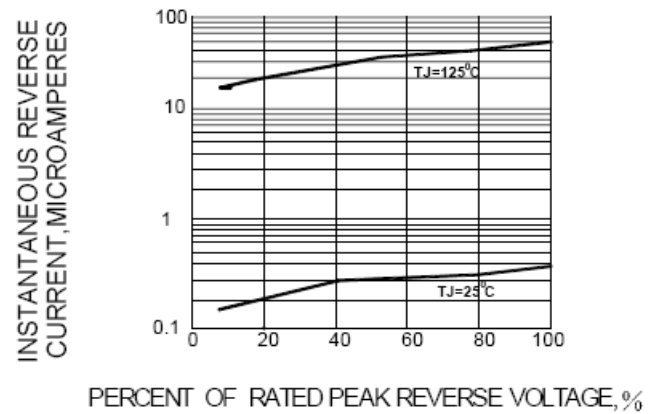


FIG.5-TYPICAL JUNCTION CAPACITANCE

