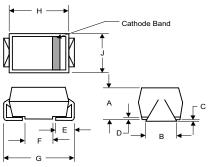


RS2A THRU RS2M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Ampere

DO-214AA (HSMB) (Round Lead)



DIMENSIONS											
	INCHES		MM								
DIM	MIN	MAX	MIN	MAX	NOTE						
Α	.078	.116	1.98	2.95							
В	.075	.089	1.90	2.25							
С	.002	.008	.05	.20							
D		.02		.51							
E	.035	.055	.90	1.40							
F	.065	.091	1.65	2.32							
G	.205	.224	5.21	5.69							
Н	.160	.180	4.06	4.57							
J	.130	.155	3.30	3.94							

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 guarantéed: 250°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-214AA 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: 0.005 ounce, 0.138 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%.

MDD Catalog Number		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90°C		2.0						Amp	
Peak forward surge current									
8.3ms single half sine-wave superimposed on		50.0						Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 2.0A		1.3						Volts	
Maximum DC reverse current Ta=25°C		5.0						μА	
at rated DC blocking voltage T _A =125℃	l R	200.0						μΛ	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)		40.0						pF	
Typical thermal resistance (NOTE 3)		15.0					°C/W		
Operating junction and storage temperature range		-50 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.

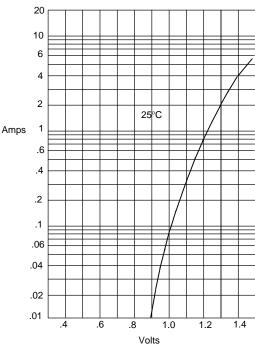
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M

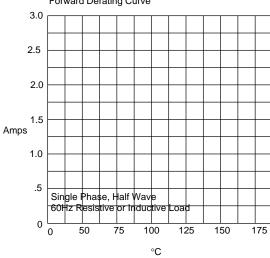
Figure 1





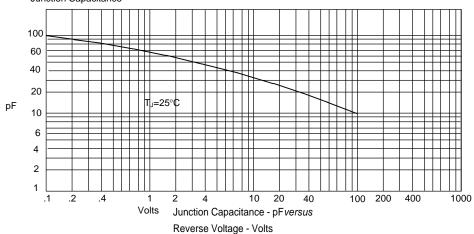
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2 Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 3 Junction Capacitance



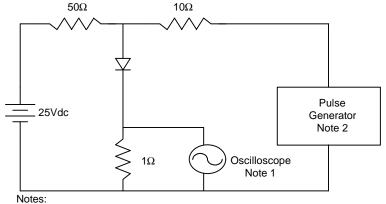
MDD ELECTRONIC

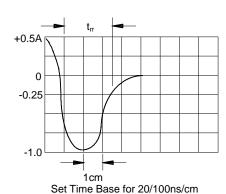
RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M

Figure 4 Maximum Non-Repetitive Forward Surge Current 75 60 45 Amps 30 15 0 8 10 20 40 60 80 100 Cycles

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5 Reverse Recovery Time Characteristic And Test Circuit Diagram





1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive