

DO-214AC

INCHES

.078

067

.002

064

.160

100

089

.008

.02

nge

180

ым

(HSMA) (High Profile)

MN

1.98

1 70

.05

.89

1.64

5.21

4.06

MA.

2.95

2 24

.20

1.40

2 45

5.69

4.5

Cathode Band

RS2A THRU RS2M

SURFACE MOUNT FAST RECOVERY RECTIFIER

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

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

MECHANICAL DATA

Case : JEDEC DO-214AC 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 :0.002 ounce, 0.07 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%.

NOTE

MDD Catalog Number	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90℃	l(AV)	2.0						Amp	
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM 50.0						Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 2.0A	Vf	1.3						Volts	
Maximum DC reverse current Ta=25℃		5.0					μA		
at rated DC blocking voltage Ta=100°C	IR		50.0						μΛ
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	CJ	50.0						pF	
Typical thermal resistance (NOTE 3)	Reja	15.0						°C/W	
Operating junction and storage temperature range	ТJ, Tstg	-50 to +150						°C	

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

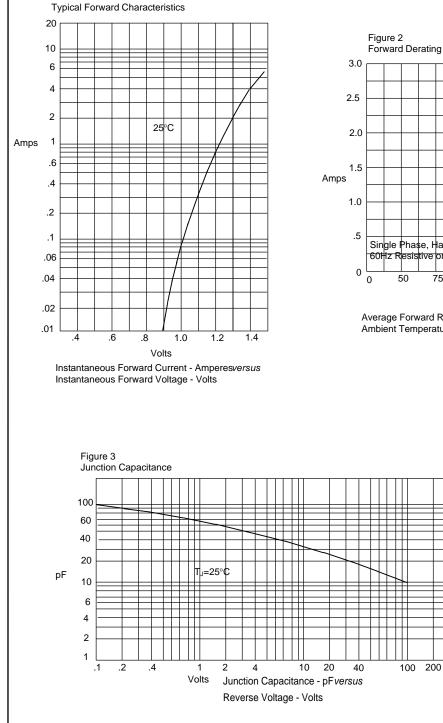
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

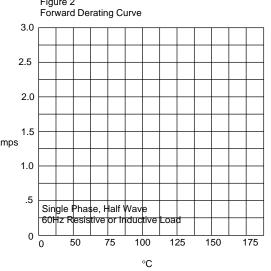
3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M

Figure 1

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

400

1000

