

RS3A THRU RS3M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes

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-214AB 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: 0.007 ounce, 0.25grams

0.126 (3.20) 0.114 (2.90) 0.114 (2.90) 0.103(2.62) 0.103(2.62)

DO-214AB

0.060(1.52) 0.030(0.76) 0.030(0.75) 0.030(0.75)

Dimensions in inches and (millimeters)

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	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	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=100℃	l(AV)	3.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100.0							Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lR	5.0 200.0						μА	
Maximum reverse recovery time (NOTE 1)	trr		15	50		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	60.0						pF	
Typical thermal resistance (NOTE 3)	RθJA	47.0						°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

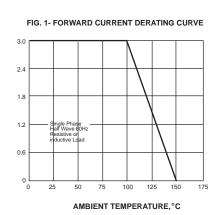


RATINGS AND CHARACTERISTIC CURVES RS3A THRU RS3M

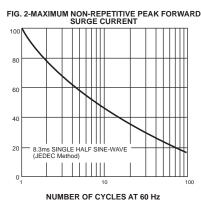
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

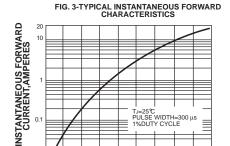
0.01 0.6

0.8









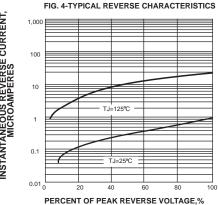


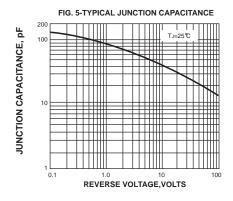
1.2

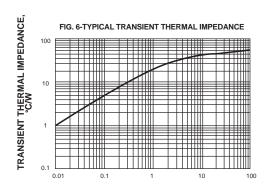
1.4 1.5

1.0

INSTANTANEOUS REVERSE CURRENT, MICROAMPERES







t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)