

## **RS3A THRU RS3M**

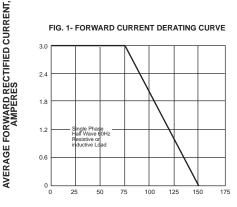
## SURFACE MOUNT FAST RECOVERY RECTIFIER

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

自殺法法

DO-214AA/SMB		FEATURES							
0.067 (2.20) 0.077 (1.80) 0.155(3.94) 0.130(3.30) 0.130(4.06) 0.180(4.06) →   ←0012(0.30) 0.160(4.06)	<ul> <li>Low reverse leakage</li> <li>Built-in strain relief, ideal for automated placement</li> <li>High forward surge current capability</li> <li>High temperature soldering guaranteed: 250°C/10 seconds at terminals</li> <li>Glass passivated chip junction</li> </ul>								
Dimensions in inches and (millimeters)		erminal lethod 2 olarity ounting /eight	s : Sol 2026 : Color <b>g Posit</b> :0.003	Ider pla band d tion : 3 ounce	A mold ted, so enotes Any e, 0.09	led plas Iderable cathoo 3 grar	stic bod e per M de end ns	– y over p IL-STD-	assivated chi 750,
Ratings at 25°C ambient temperature unless otherwise Single phase half-wave 60Hz,resistive or inductive load	specified. ,for capacitiv	ve load	current	derate	by 20	%.		1	
MDD Catalog Number	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=75°C	l(AV)	3.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	зм 100.0					Amps		
Maximum instantaneous forward voltage at 3.0A	Vf	1.3					Volts		
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=100℃	lr	5.0 100.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr					250	500		ns
Typical junction capacitance (NOTE 2)	CJ	60.0						pF	
Typical thermal resistance (NOTE 3)	Reja	50.0						°C/W	
Operating junction and storage temperature range	Т,Тята							°C	
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0 2.Measured at 1MHz and applied reverse voltage of 3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) coppe	of 4.0V D.C.	1							

## RATINGS AND CHARACTERISTIC CURVES RS3A THRU RS3M



AMBIENT TEMPERATURE,°C

TJ=25℃ PULSE WIDTH=300 µs 1%DUTY CYCLE

1.2

Ξ

1.4 1.5

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT, AMPERES 20 10

0.1

0.01

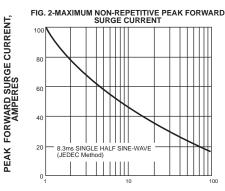
0.6

0.8

1.0

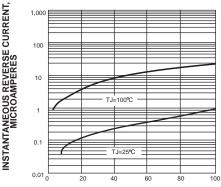
INSTANTANEOUS FORWARD VOLTAGE,

VOLTS



NUMBER OF CYCLES AT 60 Hz





PERCENT OF PEAK REVERSE VOLTAGE,%

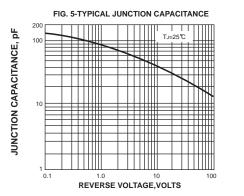


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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