

RS3X SERIES

SURFACE MOUNT FAST RECOVERY RECTIFIER

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http://www.cenxelec.com.cn

RS3A THRU RS3M



SURFACE MOUNT FAST RECOVERY RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 3.0 AMPERE

FEATURES

- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Easy pick and place
- · Fast Recovery times for high efficiency
- · Plastic package has Underwriters Laboratory

Flammability Classification 94V-O

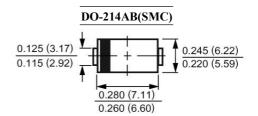
· High temperature soldering : 260°C /10 seconds at terminals

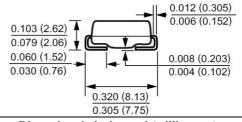
MECHANICAL DATA

Case: Molded plastic, DO-214AB(SMC) Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band

Packaging: 16mm tape per EIA STD RS-481

Weight: 0.21 gram





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, derate current by 20%.

	Symbols	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Units
Maximum Recurrent 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 T _L =75℃	I(AV)	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM				100				Amp
Maximum Forward Voltage at 3.0A	VF	1.3							Volts
Maximum Reverse Current at TA=25℃ at Rated DC Blocking Voltage TA=125℃	IR	10 250							μАтр
Typical Junction Capacitance (Note 1)	CJ	60							pF
Typical Thermal Resistance (Note 2)	Roja Rojl	50 15							℃/W
Maximum Reverse Recovery Time (Note 3)	Trr		1	.50		250	4	500	nS
Operating Junction Temperature Range	TJ	-55 to +150							ರ
Storage Temperature Range	Tstg	-55 to +150							Ç

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6 x 0.6" (16.0 x 16.0mm) copper pad areas
- 3- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.



RATINGS AND CHARACTERISTIC CURVES

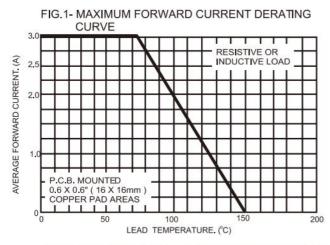


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD

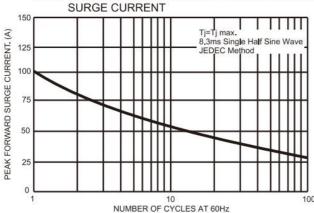


FIG.4- TYPICAL JUNCTION CAPACITANCE JUNCTION CAPACITANCE.(pF) 10 REVERSE VOLTAGE. (V)

FIG.2- TYPICAL REVERSE CHARACTERISTICS

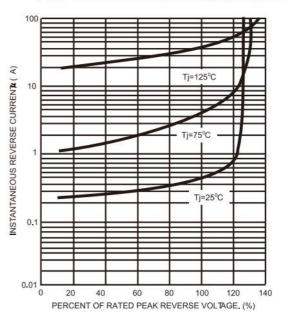


FIG.5- TYPICAL INSTANTANEOUS

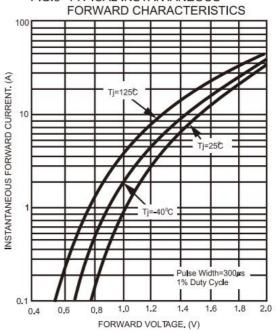


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

