

#### 1.0Amp Fast Recovery Surface Mounted Rectifiers

#### **Features**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

#### **Mechanical Data**

Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

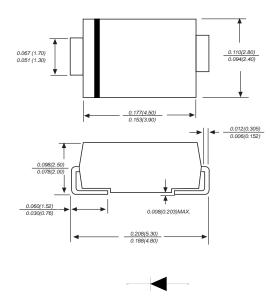
Mounting Position: Any

Weight: 0.0023 ounce, 0.07 grams

# DO-214AC/SMA ROHS







Dimensions in inches and (millimeters)

#### **Maximum Ratings And Electrical Characteristics**

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=100°C	l(AV)	1.0					А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	30.0					А		
Maximum instantaneous forward voltage at 1.0A	VF	1.30					V		
Maximum DC reverse current T = 25°C at rated DC blocking voltage Ta=125°C	lR	5.0 500					u A		
Maxinum reverse recovery time(Note 1)	Trr		1	50		250	5	500	ns
Typical junction capacitance (Note2)	Cì	10.0					pF		
Typical thermal resistance	RqJA	80.0					°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150				°C			

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

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

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## **Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

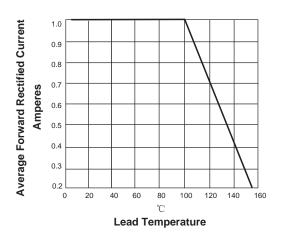


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

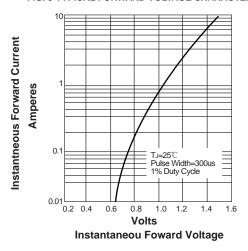


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

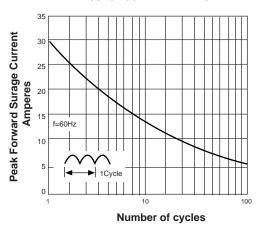
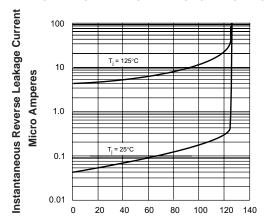
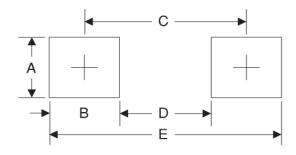


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

#### **Suggested Pad Layout**



Symbol	Unit (mm)	Unit (inch)
Α	1.68	0.066
В	1.52	0.060
С	3.90	0.154
D	2.41	0.095
Е	5.45	0.215

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