0.006(0.150)



## Surface Mount Fast Recovery Rectifiers

#### **Features**

- Low profile space
- · Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
   260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

#### **Mechanical Date**

- Case: JEDEC DO-214AC (SMA) molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end

# 0.059(1.50) 0.051(1.30) 0.181(4.60) 0.157(4.00) 0.012(0.305)

SMA/DO-214AC

Dimensions in inches and (millimeters)

0.060(1.52

#### **Maximum Ratings & Thermal Characteristics**

Rating at 25°C ambient temperature unless otherwise specified Single phase,half wave,60Hz,resistive or inductive load For capacitive load derate current by 20%

Type Number	SYMBOL	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL =100°C	IF(AV)	2.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							А
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	14.94							A²s
Forward Voltage @IF=2.0A	$V_{FM}$	1.3							V
Peak Reverse Current @T <sub>A</sub> =25°C	5.0								
At Rated DC Blocking Voltage@T <sub>A</sub> =125°C	I <sub>R</sub>	<sup>1</sup> R 200							uA
Maximum Reverse Recovery Time (Note1)	Trr		150	)		250	50	00	ns
Typical Junction Capacitance (Note 2)	C₃	22						pF	
Typical Thermal Resistance Junction to Ambient(Note 3)	Reja Rejl		65 20						°C/W
Operating Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

Note: 1. Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. 8.0mm<sup>2</sup> (.013mm thick) land areas.



# Surface Mount Fast Recovery Rectifiers

#### Characteristic Curves (T<sub>A</sub>=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

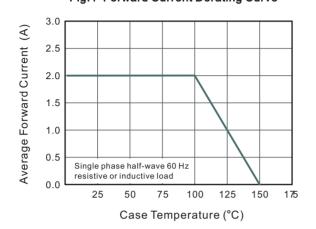


Fig.2 Typical Reverse Characteristics

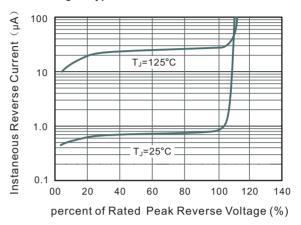


Fig.3 Typical Instaneous Forward Characteristics

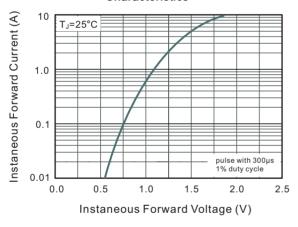


Fig.4 Typical Junction Capacitance

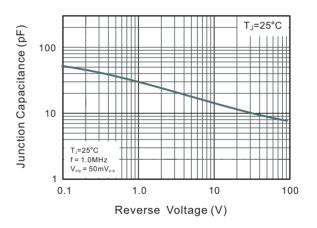
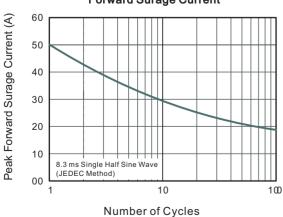
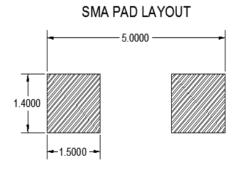


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current





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