

### Surface Mount Standard 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℃/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) 0.194(2.40) 0.094(2.40) 0.094(2.40) 0.094(2.40) 0.006(0.150) 0.006(0.150) 0.004(0.1) 0.208(5.28) 0.185(4.70)

SMA/DO-214AC

Dimensions in inches and (millimeters)

### **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	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	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	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T =100°C	IF(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	30							Α
Rating for fusing (t<8.3ms)	l²t	3.74							A <sup>2</sup> s
Forward Voltage @IF=1.0A	V <sub>FM</sub>	1.0							V
Peak Reverse Current @T <sub>A</sub> =25°C		5.0 200							uA
At Rated DC Blocking Voltage @T <sub>A</sub> =125°C	l <sub>R</sub>								
Typical Junction Capacitance (Note 1)	CJ	12							pF
Typical Thermal Resistance Junction to Ambient(Note 2)	Re ja	30							°C/W
Operating Temperature Range	TJ	-55 to+150							${\mathbb C}$
Storage Temperature Range	Тѕтѕ	-55 to +150							$^{\circ}$

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Resistance from Junction to Ambient at 0.375(9.5 mm) lead length .



## Surface Mount Standard Rectifiers

### Characteristic Curves ( $T_A$ =25 $^{\circ}$ C unless otherwise noted)

Fig.1 Forward Current Derating Curve

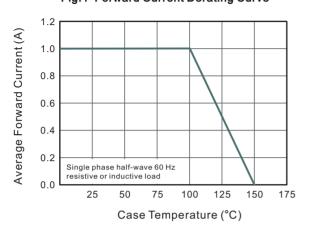


Fig.2 Typical Reverse Characteristics

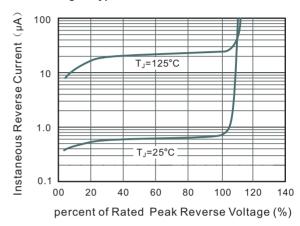


Fig.3 Typical Forward Characteristic

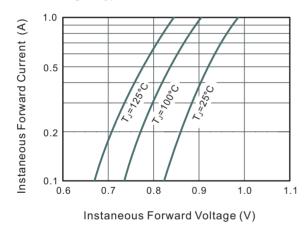


Fig.4 Typical Junction Capacitance

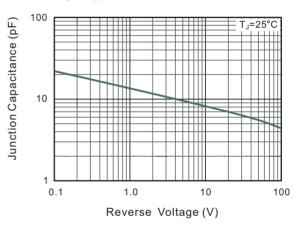
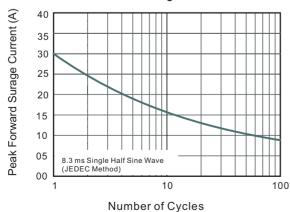
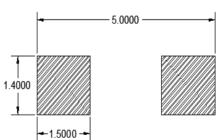


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



SMA PAD LAYOUT



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Juxing Electronic Technology manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H BAV17-TR BAV19-TR 1N3611 NTE156A NTE574 NTE6244 1SS181-TP

1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP

RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4153-1

JAN1N4454-1 JAN1N4454UR-1 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08

1N4454-TR BAV199E6433HTMA1 BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3

NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3