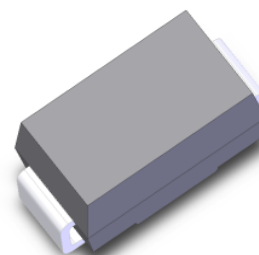


Features

- Ideal for automated placement
- Glass passivated Standard rectifiers
- High reverse voltage
- High forward surge capability
- Moisture sensitivity: level 1, per J-STD-020



DO-214AC(SMA)

Typical Applications

- For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Mechanical Data

- Case:DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating
- Terminal:Matte tin plated leads, solderable per J-STD-002 and JESD22B-106
- Polarity:Indicated by cathode band

Maximum Ratings and Electrical Characteristics

(TA = 25 °C unless otherwise noted)

Parameter		Symbol	GN2P16	GN2P18	GN2P20	Unit
Maximum repetitive peak reverse voltage		VRRM	1600	1800	2000	V
Maximum RMS voltage		VRMS	1120	1260	1400	V
Maximum DC blocking voltage		VDC	1600	1800	2000	V
Maximum average forward rectified current		IF(AV)	2.0			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		IFSM	50.0			A
Rating for fusing (t≤8.3ms,single half sine-wave)		I²t	10.4			A²s
Rating for fusing (t≤5ms,single square wave)			7.6			
Maximum forward voltage at I_F=2.0Amps		V_F	1.1			Volts
Maximum DC reverse current at rated DC blocking voltage	@Ta=25°C	I_R	5.0			uA
	@Ta=125°C		50.0			
Typical junction capacitance(Note1)		C_J	10.0			pF
Typical thermal resistance(Note2)		R_θJA	TBD			°C/W
Operating junction and storage temperature range		T_J, TSTG	- 55 to + 150			°C

Notes:1.Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.

2.Thermal resistance from junction to ambient, 5.0×5.0mm copper pads to each terminal

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

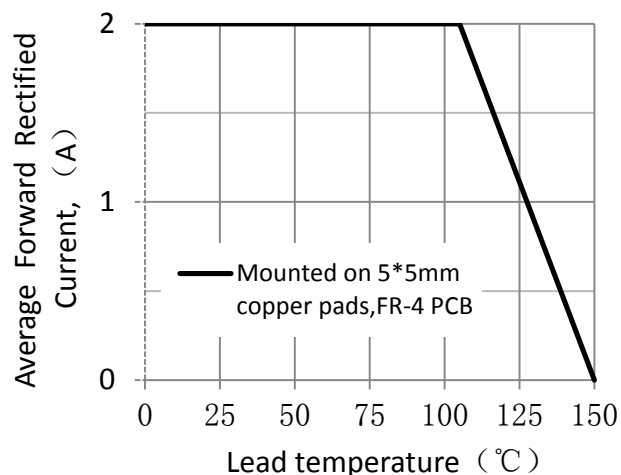


Figure 1. Forward Current Derating Curve

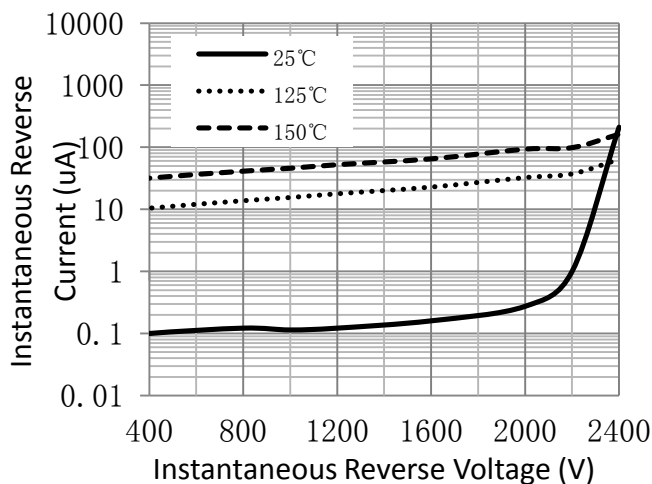


Figure 3. Typical Reverse Characteristics

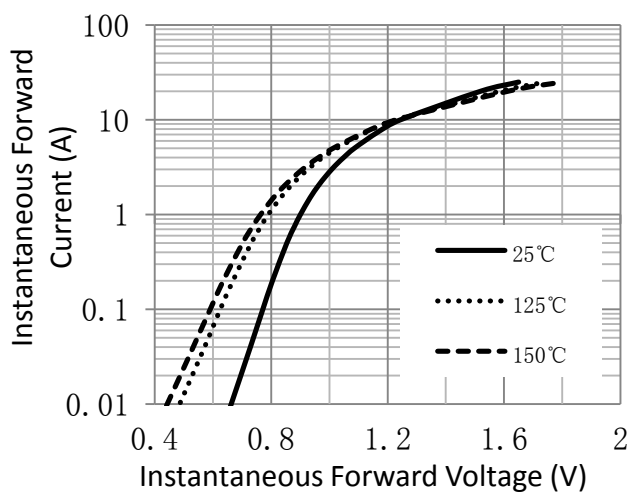


Figure 5. Typical Instantaneous Forward Characteristics

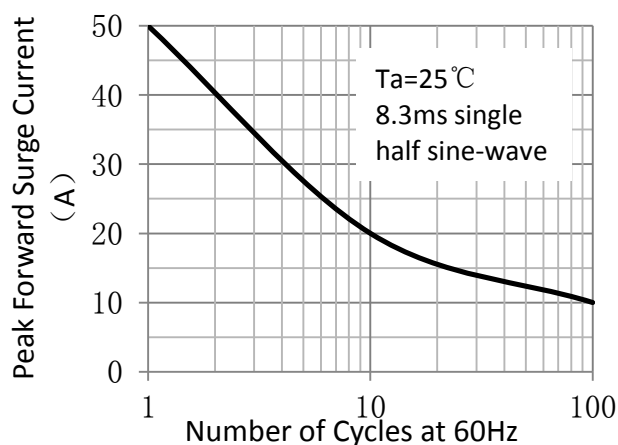


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

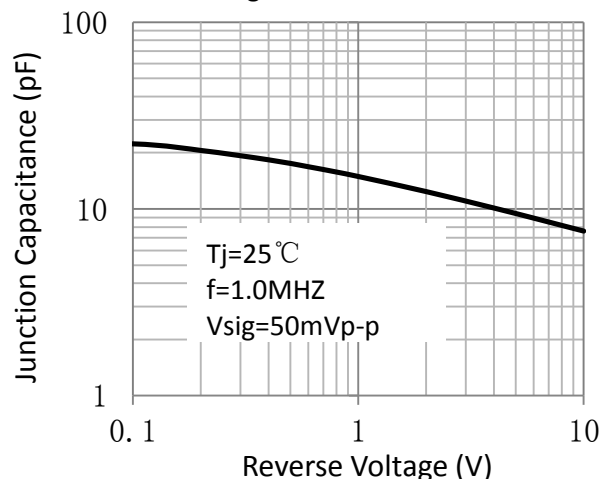


Figure 4. Typical Junction Capacitance

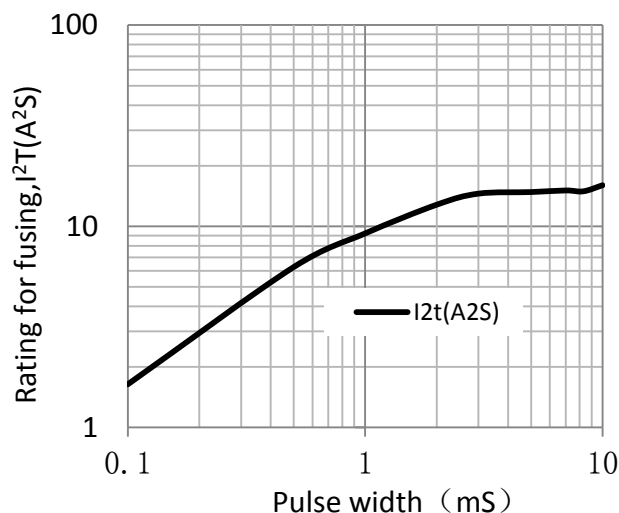
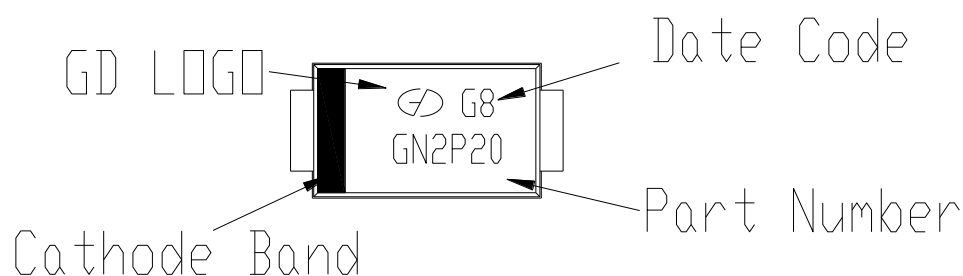


Figure 6. I^2t -values versus pulse width of square wave

Marking Information



Date Code:Year code+Month code

Year Code :

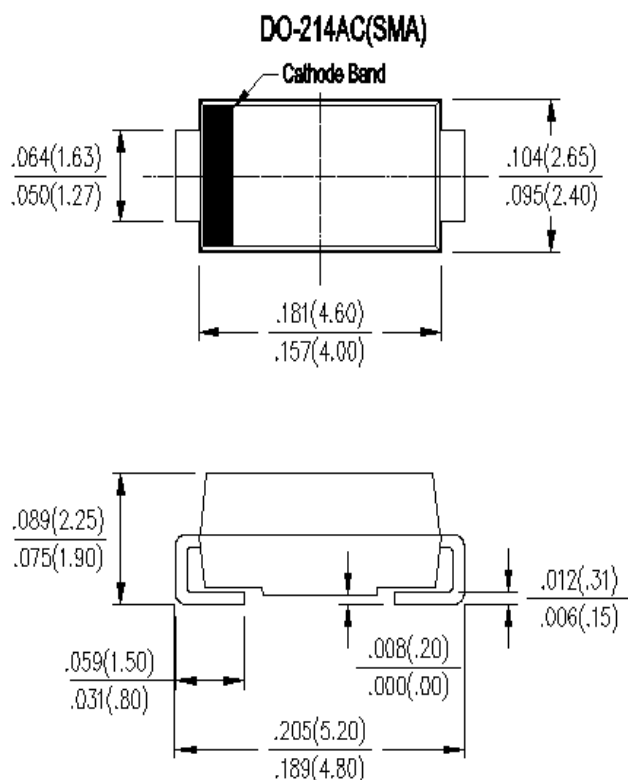
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Code	9	A	B	C	D	E	F	G	H	J	K	0

Month Code :

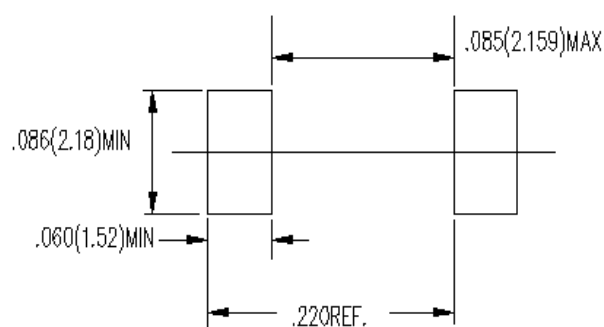
Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Code	1	2	3	4	5	6	7	8	9	O	N	D

Package Outline Dimensions

in inches (millimeters)



MOUNTING PAD LAYOUT

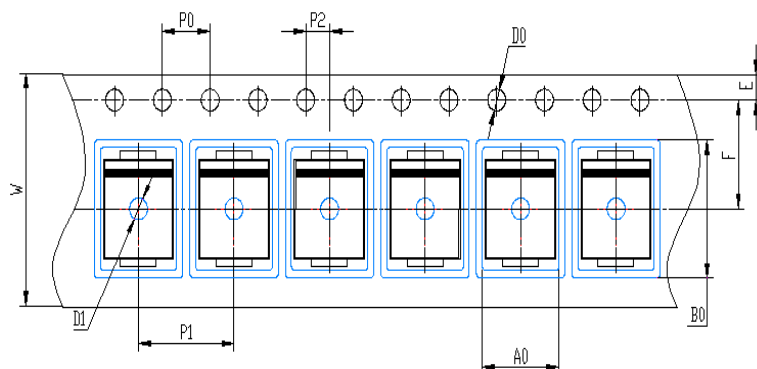


Packing Information

Packing quantities:

7500 pcs/Reel, 18 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbol	SMA (mm)
W	12 ± 0.2
E	1.75 ± 0.1
F	5.5 ± 0.05
D0	1.5 ± 0.1
D1	1.50 +0.1/-0
P0	4.0 ± 0.1
P1	4.0 ± 0.1
P2	2.0 ± 0.05
A0	2.65 ± 0.1
B0	5.25 ± 0.1



GN2P16 thru GN2P20

Surface Mount Glass Passivated Standard Rectifier
Reverse Voltage 1600~2000V Forward Current 2A

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