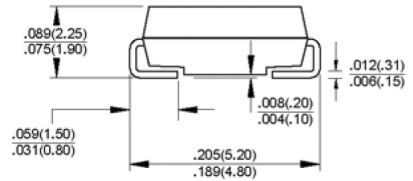
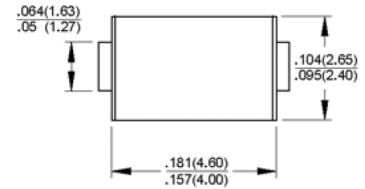


Features

- Glass passivated Standard rectifiers
- For surface mounted application
- **Super low VF**
- **High forward surge capability**
- Moisture sensitivity: level 1, per J-STD-020



DO-214AC (SMA)



Dimensions in inches and (millimeters)

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 (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	GN2AA	GN2BA	GN2DA	GN2GA	GN2JA	GN2KA	GN2MA	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current TL (See Fig.1)	I _{F(AV)}	2.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	65.0							A
Maximum forward voltage at I _F =2.0Amps	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage @Ta=25℃	I _R	5.0							uA
@Ta=125℃		100.0							
Typical junction capacitance(Note1)	C _J	10.0							pF
Typical thermal resistance(Note2)	R _{θJL}	20.0							℃/W
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150							℃

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

2. Thermal resistance from junction to lead, 0.197×0.197 " (5.0×5.0mm) copper pads to each terminal

RATINGS AND CHARACTERISTICS CURVES

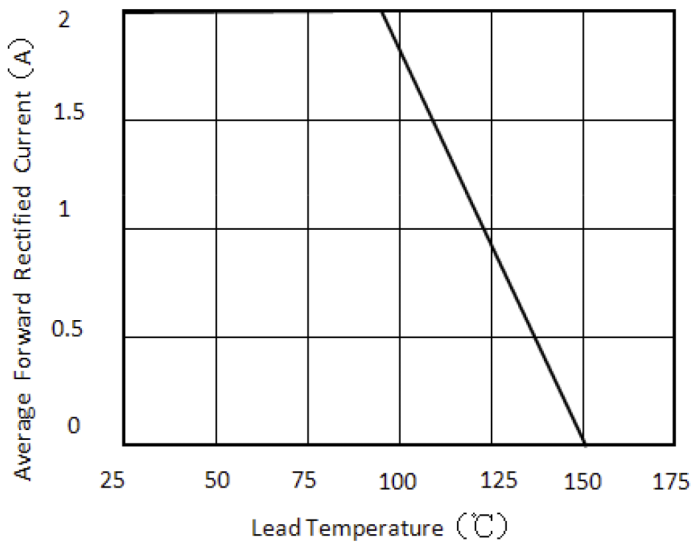


Figure 1. Forward Current Derating Curve

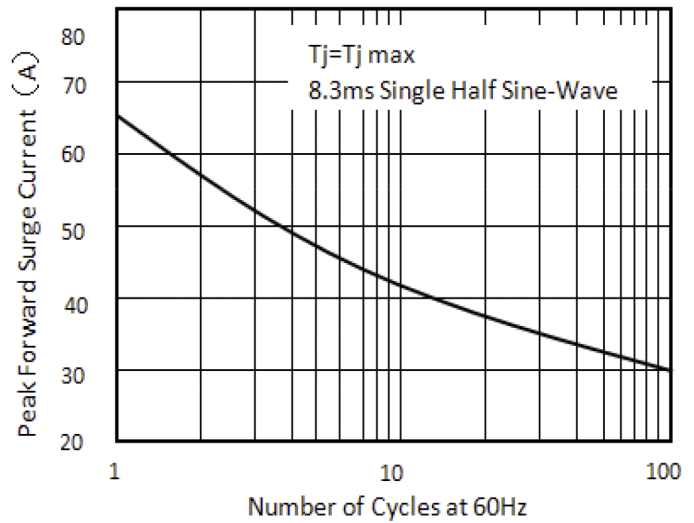


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

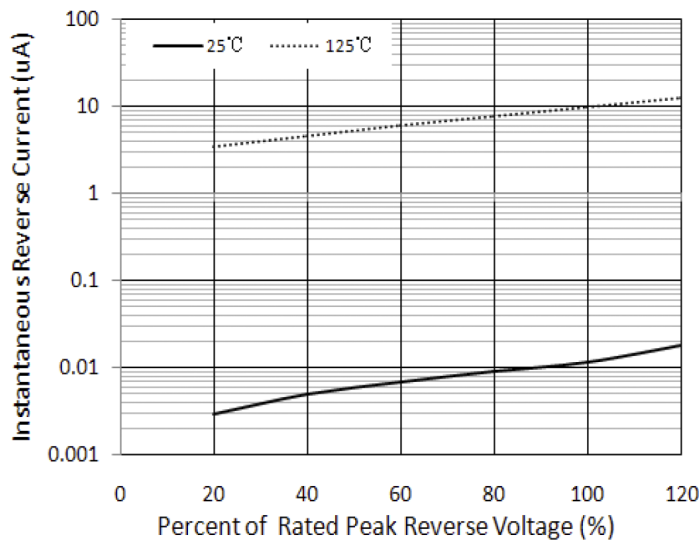


Figure 3. Typical Reverse Characteristics

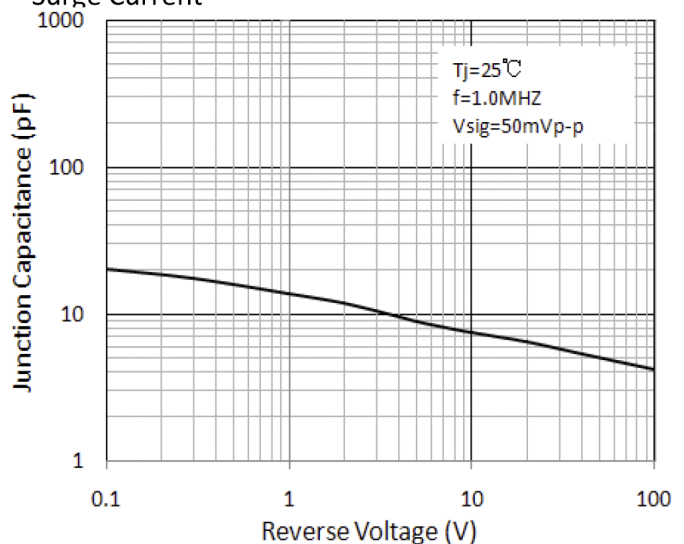


Figure 4. Typical Junction Capacitance

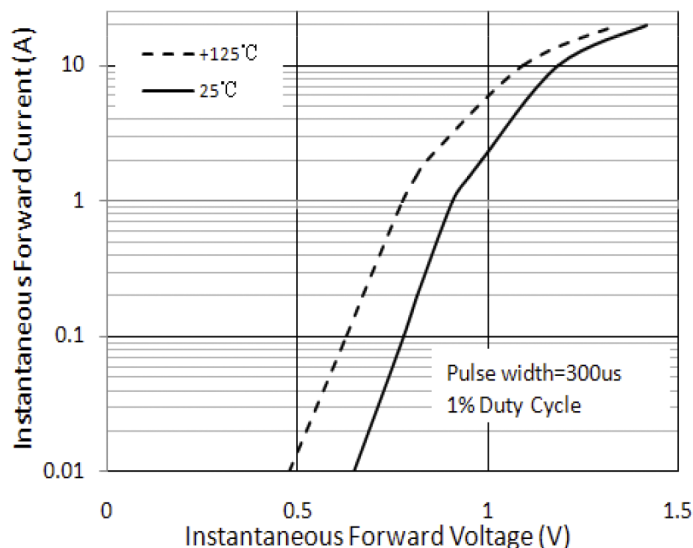


Figure 5. Typical Instantaneous Forward Characteristics