

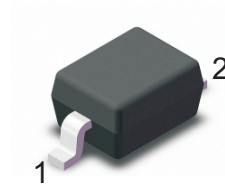
Surface Mount General-purpose Rectifiers in SOD-323

Features

- Low reverse leakage
- High forward surge capability
- High reliability

Mechanical Data

- **Case:** JEDEC SOD-323 molded plastic
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

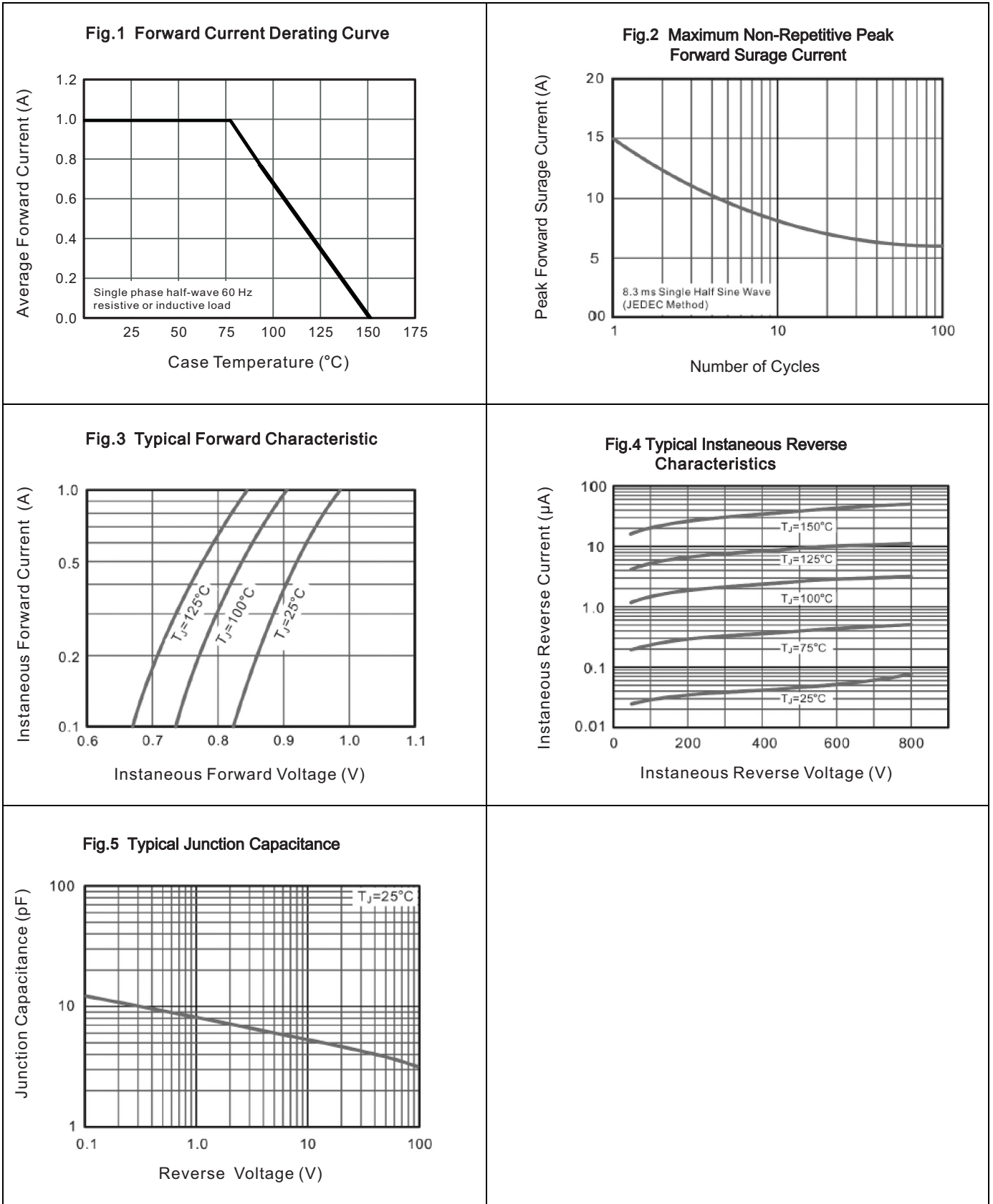


Maximum Ratings And Electrical Characteristics									
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.									
Parameter	Symbols	CGP1A	CGP1B	CGP1D	CGP1G	CGP1J	CGP1J	CGP1M	Units
Maximum 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	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	15.0							A
Maximum instantaneous forward voltage @ 1.0A DC	V_F	1.1							V
Maximum DC reverse current @ $T_J = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_J = 125^\circ\text{C}$	I_R	5.0 50.0							uA
Typical junction capacitance (Note 1)	C_J	5							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	55							°C/W
Operating junction temperature range	T_J	-55 to +150							°C
Storage temperature range	T_{STG}	-55 to +150							°C

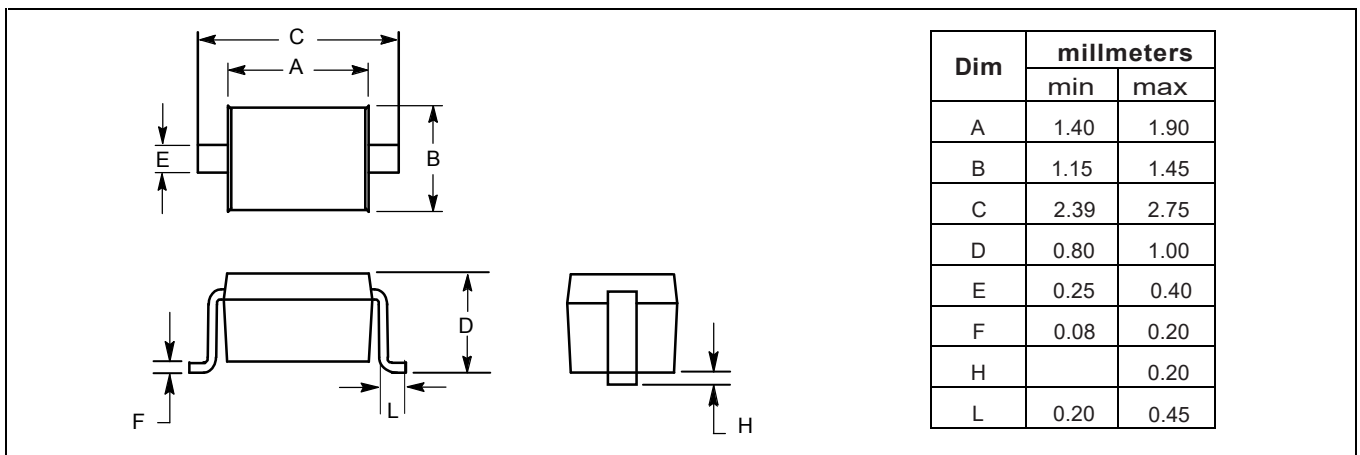
Notes:

1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. PCB mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.

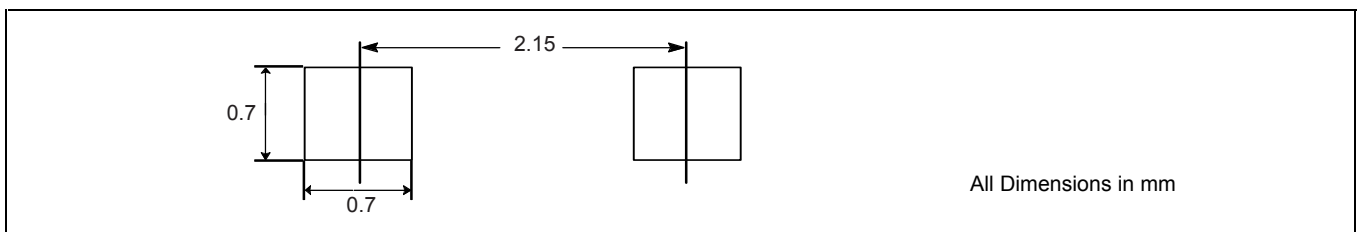
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



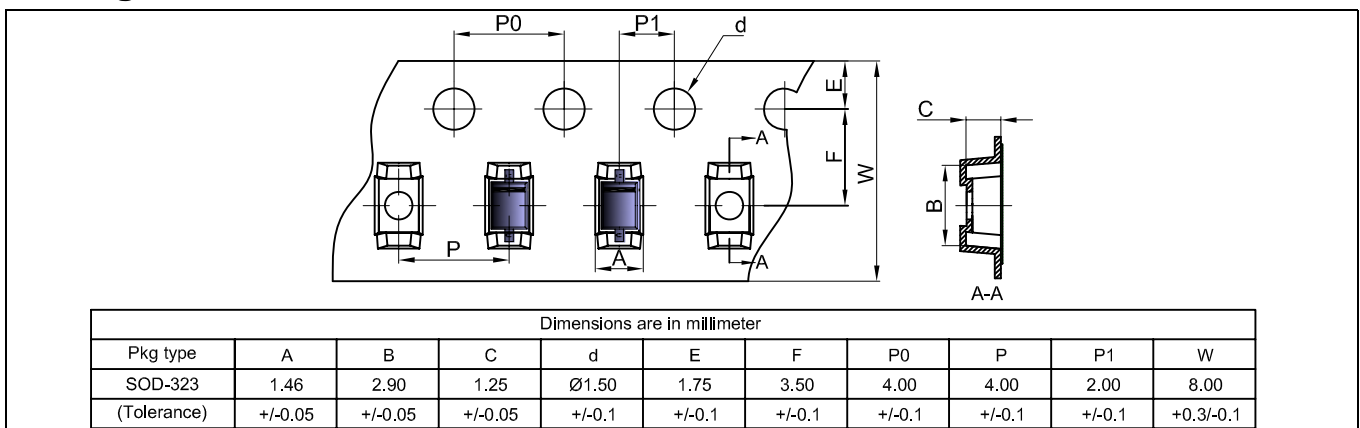
Package Dimensions



PAD Dimension



Package Information



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CGP1A thur CGP1M	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release

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