

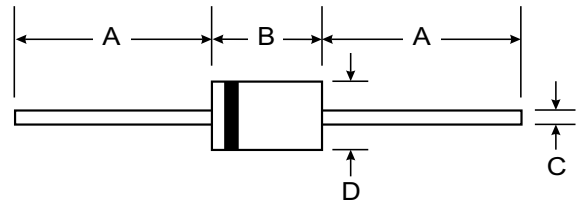
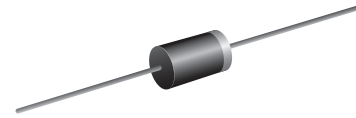
VOLTAGE RANGE: 50 - 1000 V
CURRENT: 2.5 A

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO - 15
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Weight: 0.40 grams (approx.)



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GP25A	GP25B	GP25D	GP25G	GP25J	GP25K	GP25M	Unit
Maximum recurrent 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 9.5mm lead length @T _A =75°C	I _{F(AV)}	2.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	150.0							A
Maximum instantaneous forward voltage @ 2.5 A	V _F	1.1							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 50.0							μA
Typical junction capacitance (Note1)	C _J	25							pF
Typical thermal resistance (Note2)	R _{θJA}	30							°C/W
Operating junction temperature range	T _J	-55----+150							°C
Storage temperature range	T _{STG}	-55----+150							°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Thermal resistance from junction to ambient.

FIG.1 – FORWARD DERATING CURVE

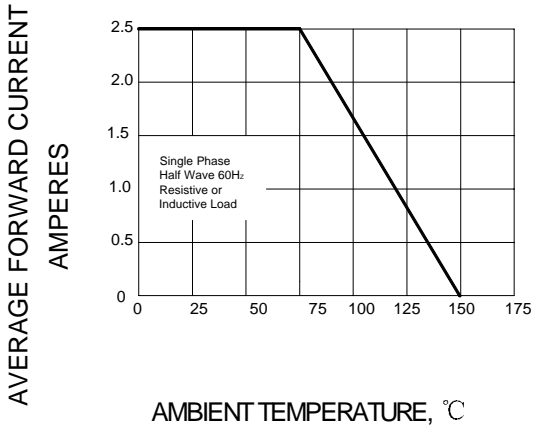


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

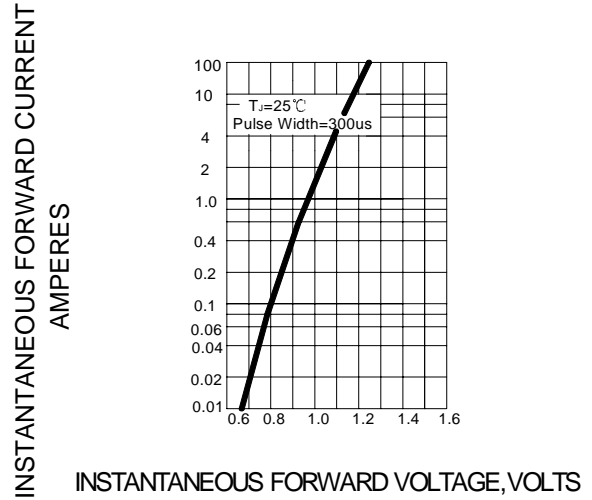


FIG.3 – PEAK FORWARD SURGE CURRENT

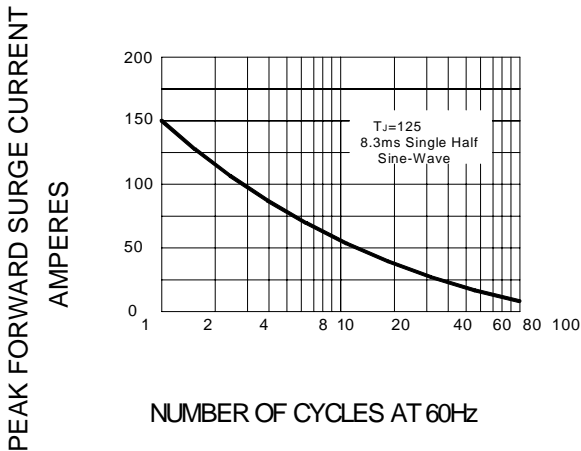


FIG.4 – TYPICAL JUNCTION CAPACITANCE

