



**REVERSE VOLTAGE: 50 - 1000 V
CURRENT: 1.0 A**

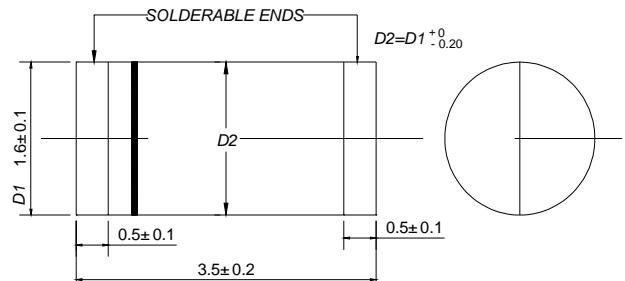
Features

- ✧ Plastic package has underwriters laboratory flammability classifications
- ✧ For surface mounted applications
- ✧ Low profile package
- ✧ Built-in strain relief, ideal for automated placement
- ✧ Glass passivated chip junction
- ✧ High temperature soldering:
250°C/10 seconds at terminals

Mechanical Data

- ✧ Case: JEDEC DO-213AA, molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.0014 ounces, 0.036 gram

DO - 213AA



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		GL1A	GL1B	GL1D	GL1G	GL1J	GL1K	GL1M	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RWS}	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 @T _L =75 °C	I _{F(AV)}				1.0				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				30				A
Maximum instantaneous forward voltage at 1.0 A	V _F		1.2			1.3			V
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R			5.0					µA
				50.0					
Typical junction capacitance(NOTE 2)	C _J		4.0						pF
Typical reverse recovery time(NOTE 3)	t _{rr}		1.5						µS
Typical thermal resistance (NOTE 4)	R _{θJA}		150						°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 4.0volts

2. Thermal resistance from junction to ambient and junction to lead P.C.B mounted on 0.27"X0.27"(7.0X7.0mm²) copper pad areas

3. Measured with IF=0.5A,IR=1.0A,Irr=0.25A.

4. Thermal resistance from junction to ambient and junction to lead P.C.B.mounted on 0.27"X0.27"(7.0X7.0mm²) copper pad areas

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

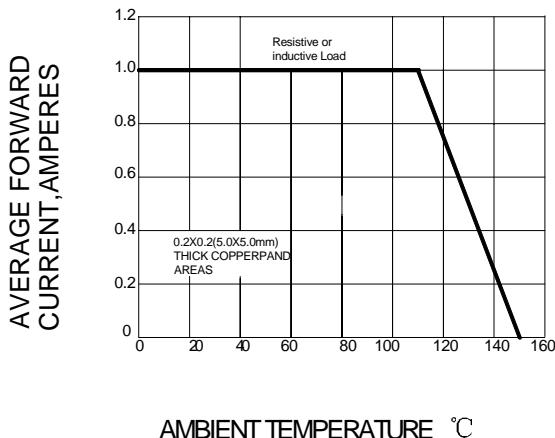


FIG.2 PEAK FORWARD SURGE CURRENT

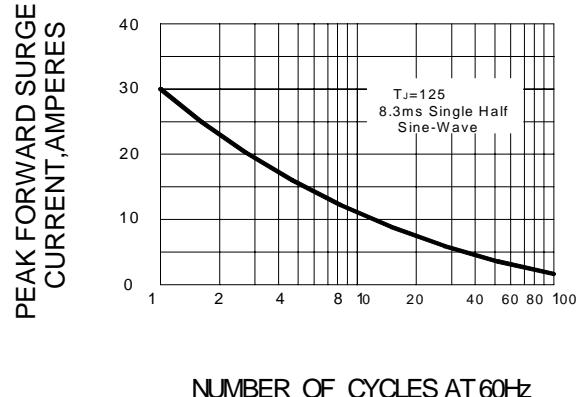


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

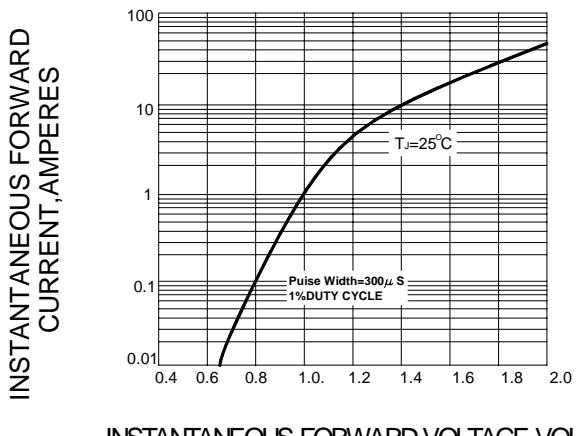


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

