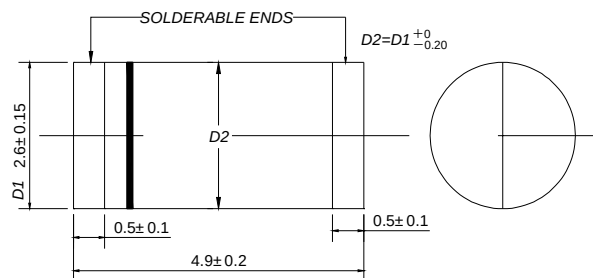



VOLTAGE RANGE: 50 --- 1600 V
CURRENT: 1.0 A
DO - 213AB

Features

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Glass passivated chip junction
- ✧ For surface mount applications
- ✧ High temperature metallurgically bonded construction
- ✧ Cavity-free glass passivated junction
- ✧ High temperature soldering guaranteed: 450 °C/5 seconds at terminals. Complete device sub-mersible temperature of 265 °C for 10 seconds in solder bath



Dimensions in millimeters

Mechanical Data

- ✧ Case: JEDEC DO-213AB, molded plastic
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.0046 ounces, 0.116 grams
- ✧ Mounting position: Any

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

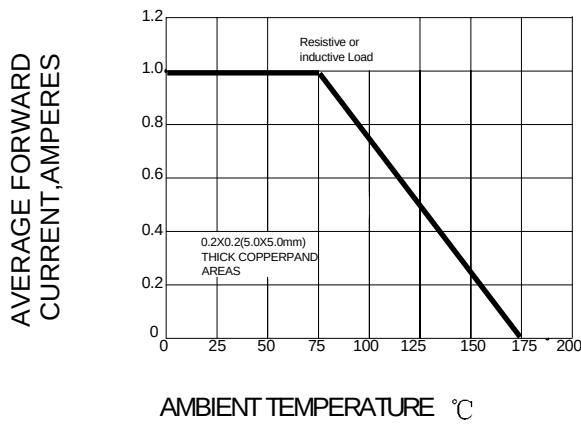
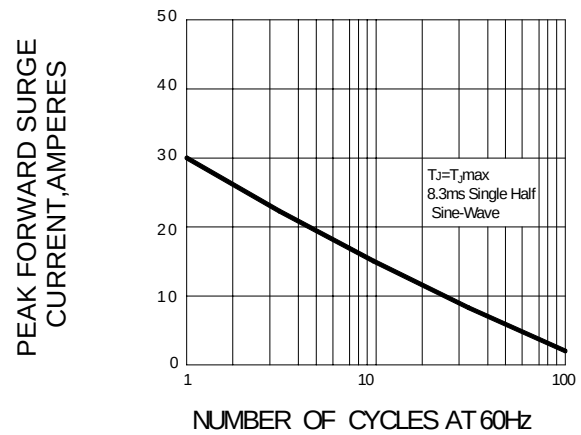
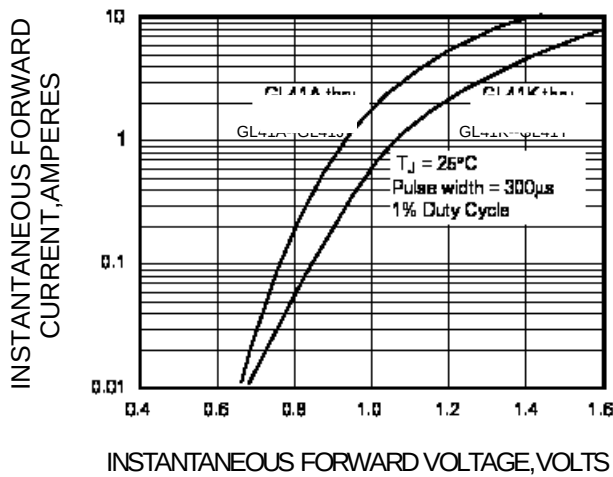
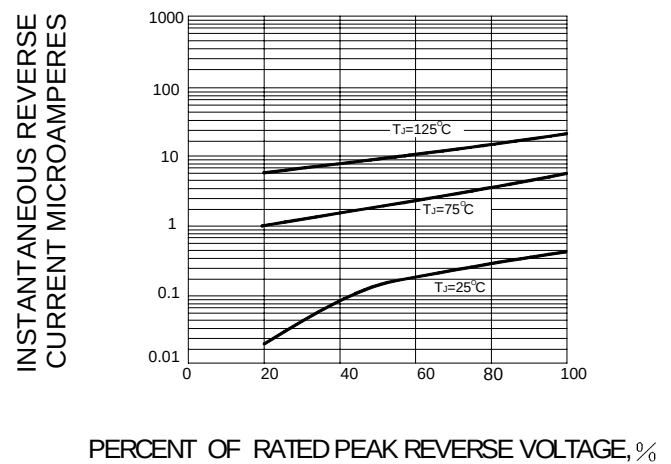
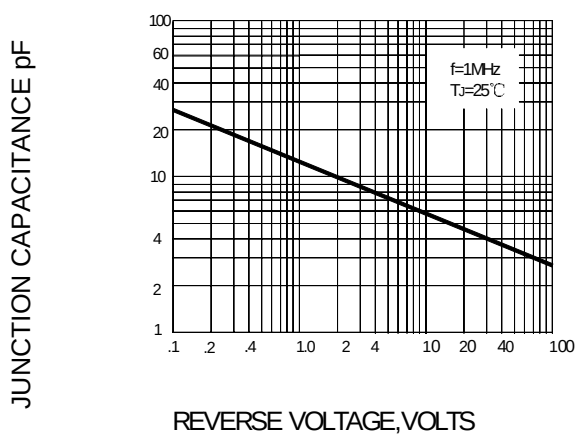
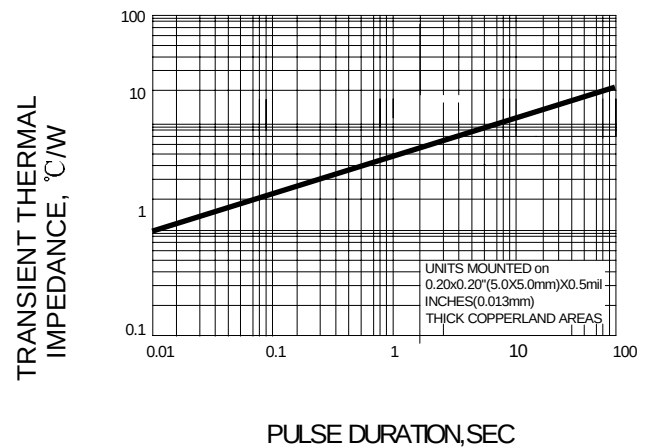
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		GL 41A	GL 41B	GL 41D	GL 41G	GL 41J	GL 41K	GL 41M	GL 41T	GL 41Y	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	1300	1600	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	910	1120	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	1300	1600	V
Maximum average forward rectified current (see FIG.1)	I _(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 @1.0A	V _F	1.1					1.2				V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =125℃	I _R	10 50									μA
Typical junction capacitance (Note1)	C _j	8.0									pF
Typical thermal resistance (Note 2)	R _{θJA}	75									℃/W
Operating junction temperature range	T _j	- 55 ---- +175									℃
Storage temperature range	T _{STG}	- 55 ---- +175									℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient, 0.24×0.24"(6.0×6.0mm) copper pads to each terminal.

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

FIG.5-TYPICAL JUNCTION CAPACITANCE

FIG.6-TRANSIENT THERMAL IMPEDANCE


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-213AB	5000/REEL	80000	36.0X35.8X36.5	18.00	16.00