## SURFACE MOUNT RECTIFIER

## VOLTAGE RANGE: 50 --- 600 V CURRENT: 1.0 A

### **FEATURES**

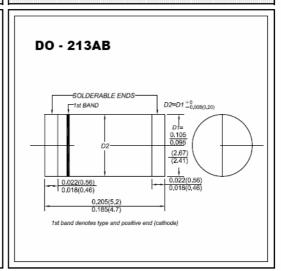
- Plastic package has underwriters laboratories flammability classification 94V-0
- Glass passivated chip junction
- ♦ For surface mount applications
- High temperature metallurgically bonded construction
- $\diamondsuit$  Cavity-free glass passivated junction
- ♦ High temperature soldering guaranteed:450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

#### MECHANICAL DATA

- ♦ Case: JEDEC DO-213AB,molded plastic
- ♦ Terminals: Axial lead ,solderable per

MIL- STD-750, Method 2026

- Polarity: Color band denotes cathode
- ♦ Weight: 0.0046 ounces, 0.116 grams
- Mounting position: Any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $\ensuremath{\mathbb{C}}$  ambient temperature unless otherwise specified.

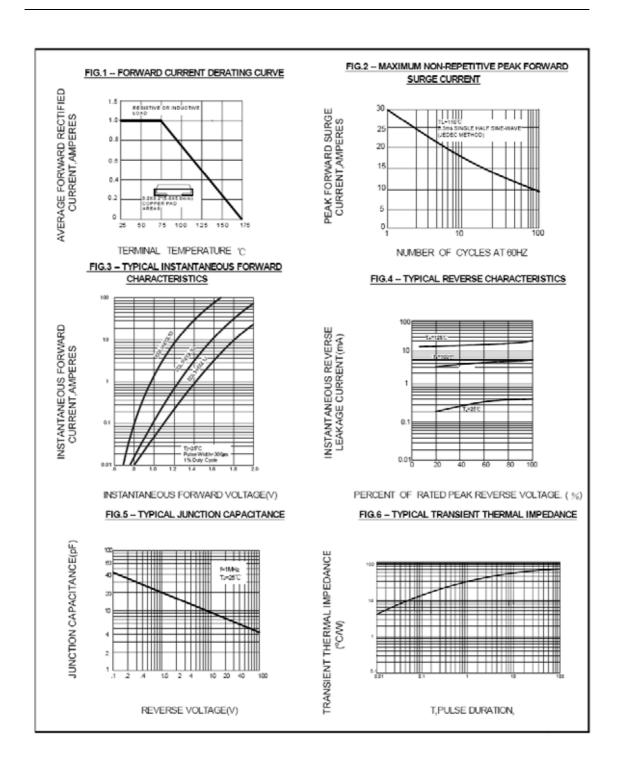
Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate current by 20%

		GL 1A	GL 1B	GL 1D	GL 1F	GL 1G	GL 1H	GL 1J	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	٧
Maximum average forward rectified current $T_T$ =75 $^{\circ}$ C	I <sub>(AV)</sub>	1.0						А	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30							А
Maximum instantaneous forward voltage @1.0A	V <sub>F</sub>	1.25 1.35 1.70				70	٧		
Maximum reverse current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=125^{\circ}C$	I <sub>R</sub>	5.0 50						μΑ	
Maximum reverse recovery time (Note 1)	t <sub>rr</sub>	50						ns	
Typical junction capacitance (Note 2)	C <sub>j</sub>	15							pF
Typical thermal resistance (Note 3)	R <sub>eJA</sub>	150						K/W	
Operating junction temperature range	Tj	- 55 <b>+17</b> 5						$^{\circ}$	
Storage temperature range	T <sub>STG</sub>	- 55 +175						$^{\circ}$	

- NOTE: 1. Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1.0A,I<sub>m</sub>=0.25A
  - 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
  - 3. Thermal resistance from junction to ambient, 0.24×0.24"(6.0×6.0mm) copper pads to each terminal.

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