

SURFACE MOUNT RECTIFIER

REVERSE VOLTAGE: 50 - 1000 V
CURRENT: 1.0 A

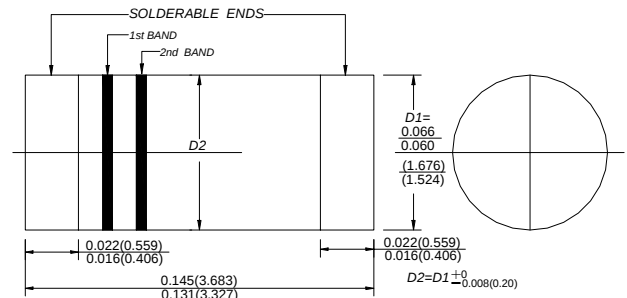
FEATURES

- ◇ 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
- ◇ Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.0014 ounces, 0.036 gram

DO - 213AA



inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Polarity color bands (2nd Band)		Gray	Red	Orange	Yellow	Green	Blue	Violet	
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 @ $T_L = 75^\circ\text{C}$	$I_{F(AV)}$	0.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	10.0							A
Maximum instantaneous forward voltage at 0.5 A	V_F	1.2							V
Maximum DC reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0							μA
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)	$R_{\theta JA}$	150							$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55-----+150							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55-----+150							$^\circ\text{C}$

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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{rr} = 0.25\text{A}$.

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

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FIG.1 – FORWARD DERATING CURVE

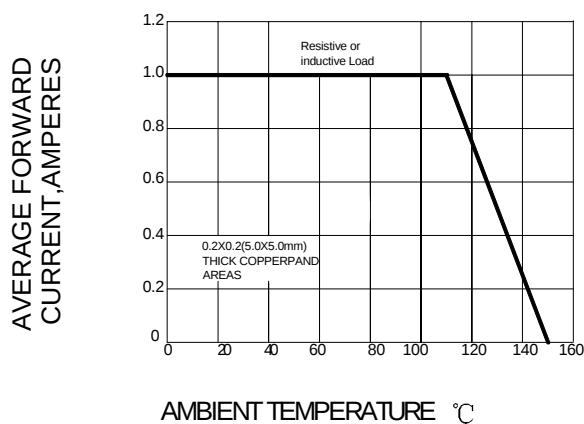


FIG.2 PEAK FORWARD SURGE CURRENT

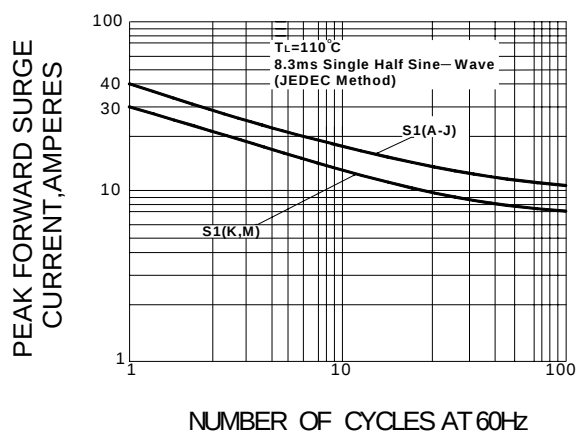


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

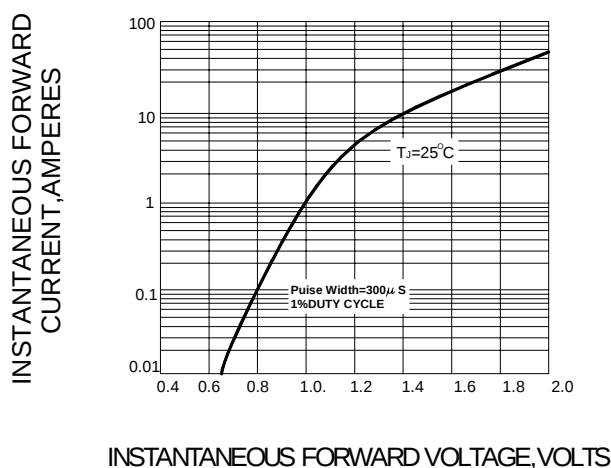


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

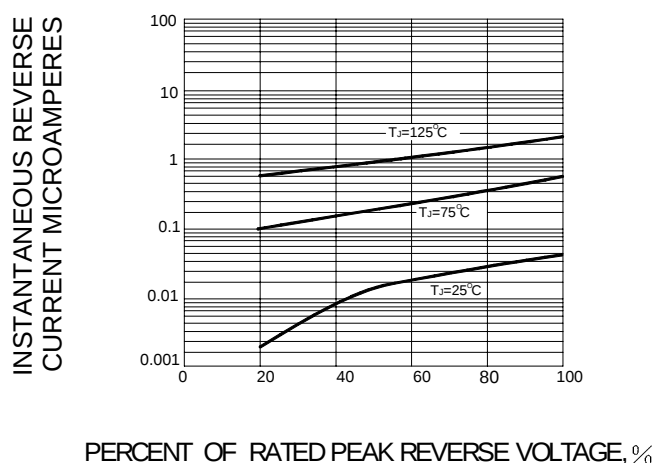


FIG.5-TYPICAL JUNCTION CAPACITANCE

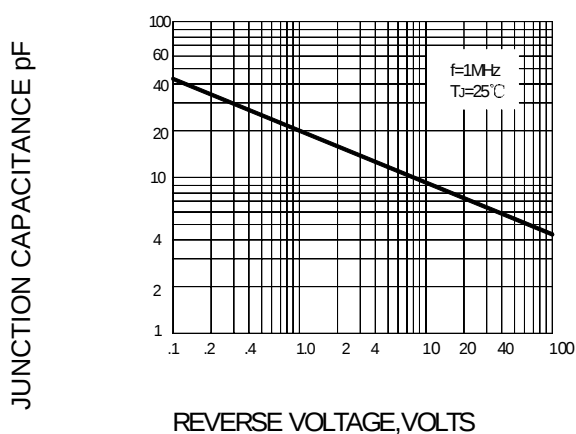


FIG.6-TRANSIENT THERMAL IMPEDANCE

