

SURFACE MOUNT SCHOTTKY RECTIFIERS

Reverse Voltage - 20 to 70 V

Forward Current - 1.0 A

FEATURES

- ◆Low power loss, high efficient
- ◆High surge current capability.
- ◆Low forward voltage drop
- ◆For use in low voltage, high frequency inverters, free wheeling application
- ◆Guarding for overvoltage protection

MECHANICAL DATA

- ◆Case: Molded plastic use UL94V-0 recognized flame retardant epoxy
- ◆Terminals: Plated terminals
- ◆Polarity: color band on body denotes cathode
- ◆Mounting position: Any
- ◆Weight: 0.0317 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. Unless otherwise specified. Single phase, half sine wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%

Parameter	Symbols	LGL34-20	LGL34-30	LGL34-40	LGL34-50	LGL34-60	LGL34-70	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	70	V
Maximum RMS voltage	V_{RMS}	14	24	28	35	42	49	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	70	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	0.5						A
Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	I_{FSM}	25						A
Maximum Instantaneous Forward Voltage Drop at 0.5A DC	V_F	0.5		0.7		0.75		V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	0.5 5.0						mA
Typical junction capacitance	C_J	80						pF
Typical Thermal Resistance	$R_{\theta JA}$	75						°C/W
Operating Junction Temperature Range	T_J	-55 ~ +125						°C
Storage Temperature Range	T_{stg}	-55 ~ +125						°C

Ratings And Characteristic Curves

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

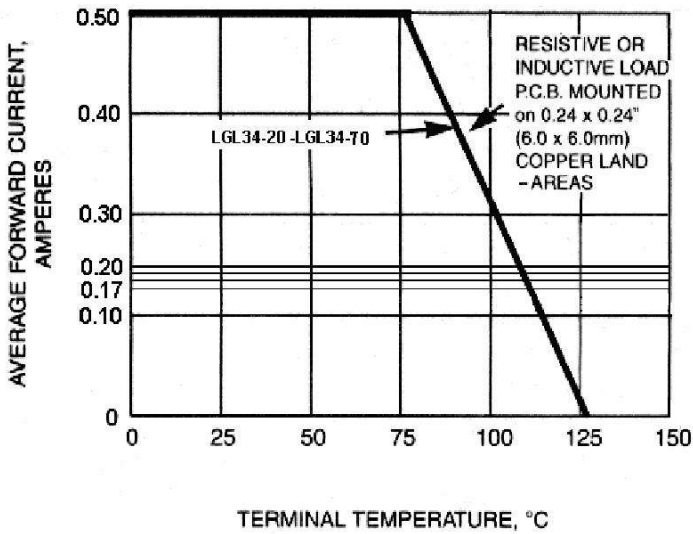


FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

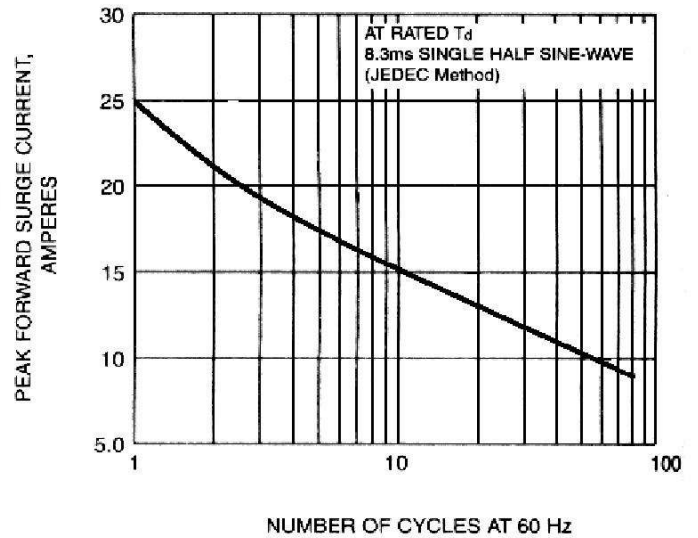


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

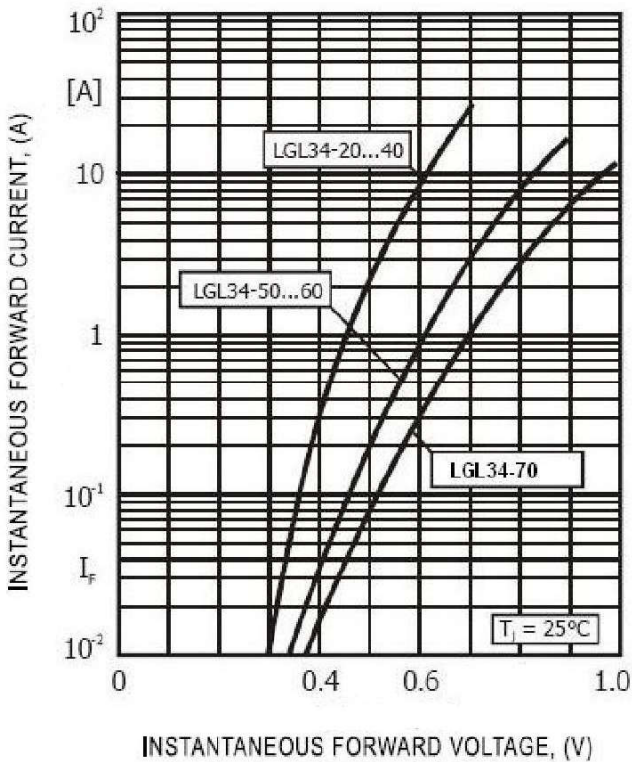
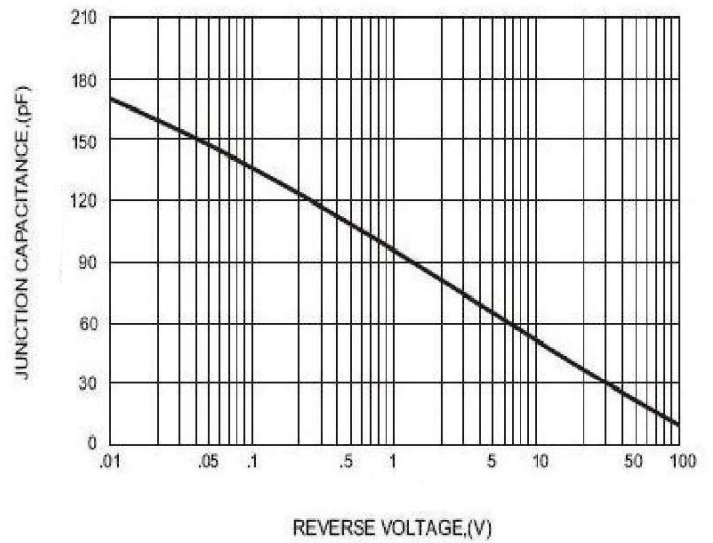


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

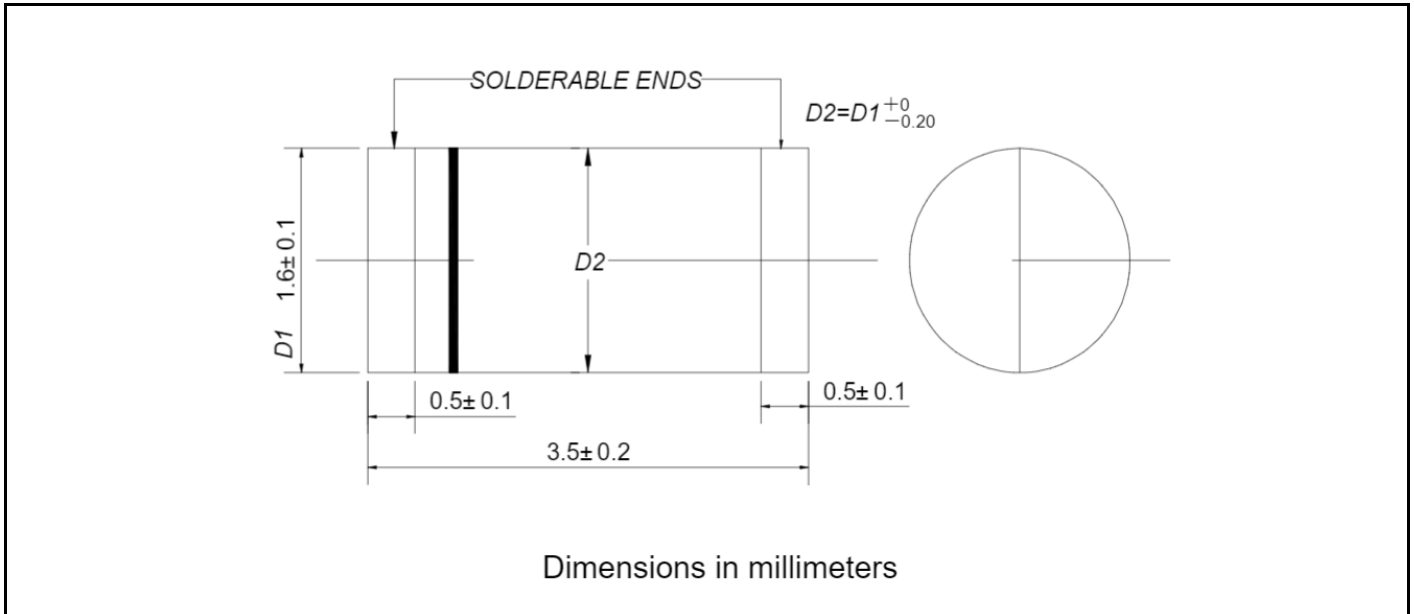


Ordering information

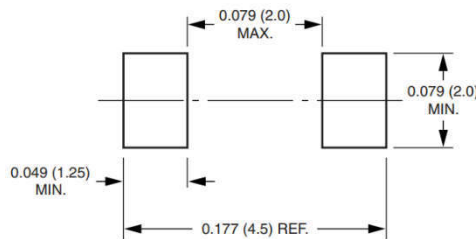
Package	Packing Description	Packing Quantity
DO-213AA(Mini MELF)	Tape/Reel,7"reel	2500PCS/Reel 100000PCS/Carton

Package Dimensions

DO-213AA(Mini MELF)



The recommended mounting pad size



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