

LGL34-20~LGL34-60

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
- . Metallurgically bonded construction

MECHANICAL DATA

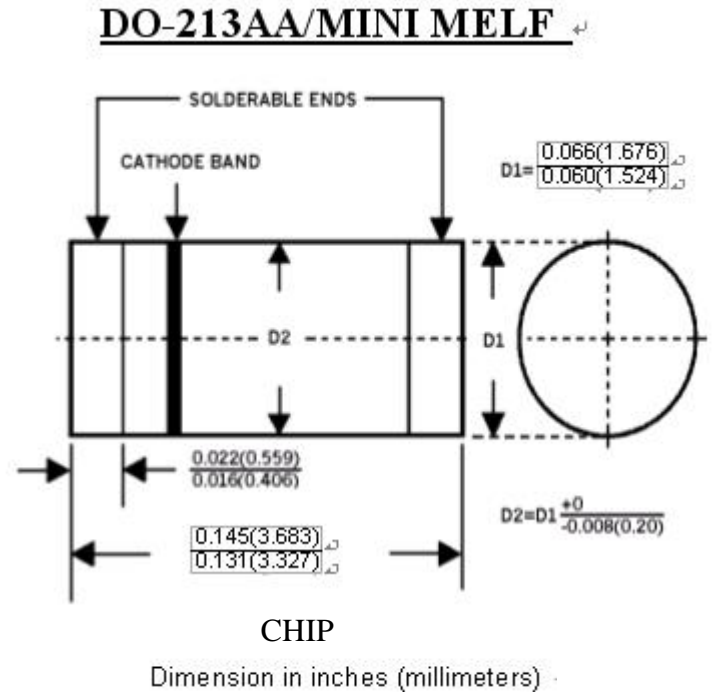
Case: Molded plastic use UL94V-0 recognized flame retardant epoxy

Terminals: Plated terminals, solderable per MIL-STD-202, method 208

Polarity: Blue color band on body denotes cathode

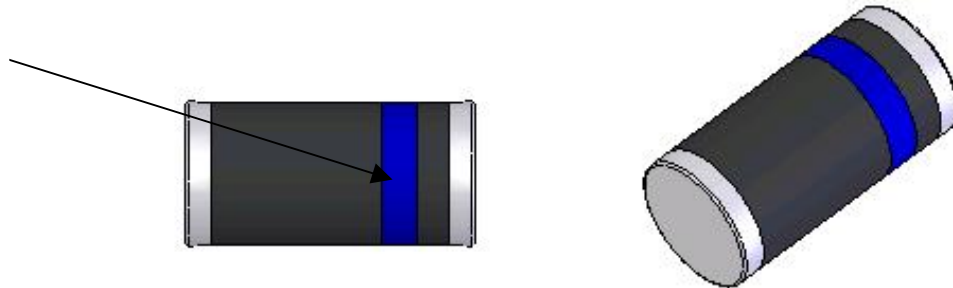
Mounting position: Any

Weight: 0.036 gram



DEVICE MARKING

陰極線



整流二極管通用符號:



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%

Easy pick and place

For capacitive load, derate current by 20%.

		LGL 341-20	LGL 341-30	LGL 341-40	LGL 341-50	LGL 341-60	UNIT S
Maximum Current Peak Reverse	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	24	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current	I(AV)	1					Amps
Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	25.0					Amps
Maximum Instantaneous Forward Voltage Drop at 0.5A DC	VF	0.45	0.55	0.6	0.70		Volts
Maximum DC Reverse Current T _A =25 °C	IR	1.0 10.0					mA
Typical Thermal Resistance	CJ	15					°C/W
Typical Junction Capacitance	CJ	110.0			90.0		pF
Operating Junction Temperature	TJ	- 55 to + 125			-55 to +150		°C
Storage Temperature Range	TSTG	- 55 to + 150					°C

RATING AND CHARACTERISTIC CURVES LGL34-20 THRU LGL34-60

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

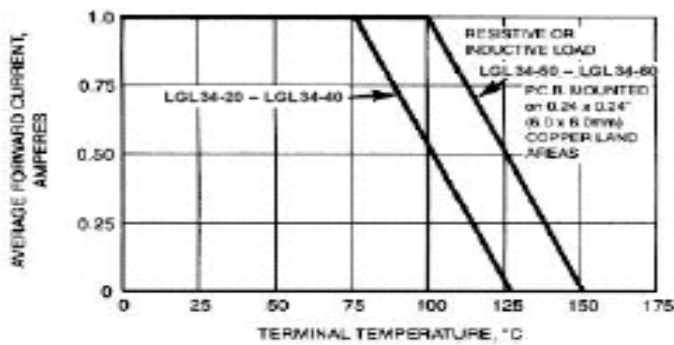


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

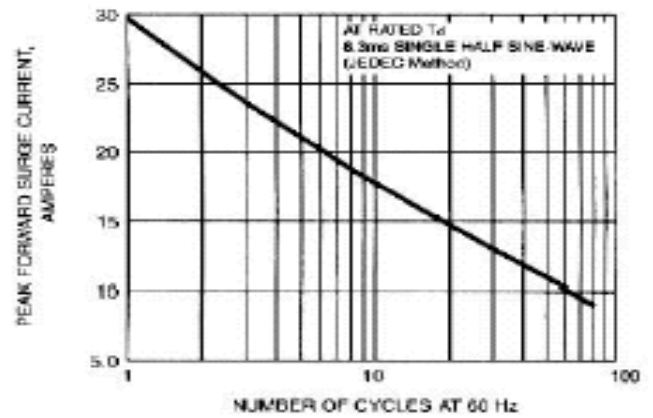


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

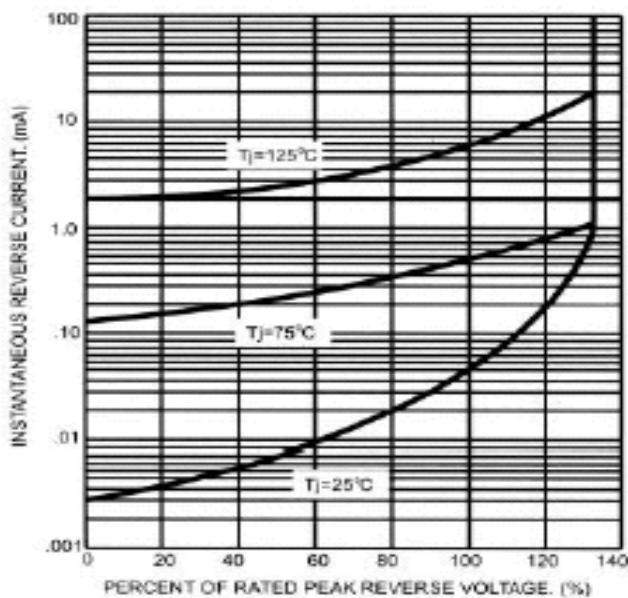


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

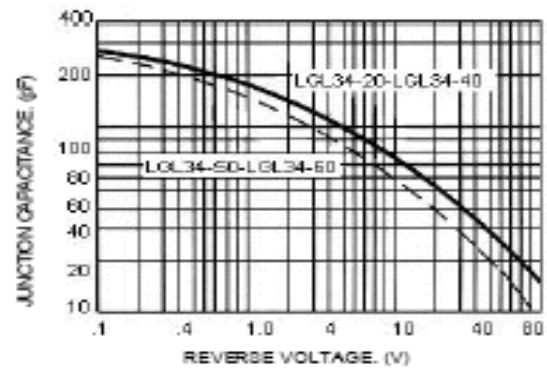


FIG. 5 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

