



SURFACE MOUNT SCHOTTKY RECTIFIERS

FEATURES:

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

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

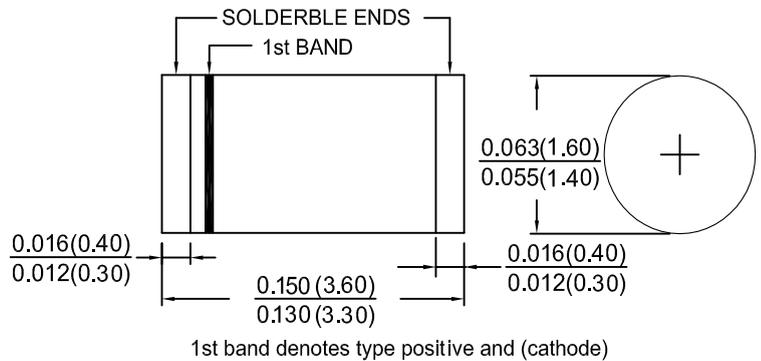
Polarity : Blue color band on body denotes cathode

Mounting Position : Any

Weight : 0.015 gram

MINI MELF / DO-213AA

(GL34)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	SGL34-20	SGL34-30	SGL34-40	SGL34-50	SGL34-60	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	Volts
Maximum average forward rectified current	I(AV)	0.8					Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	25					Amps
Maximum instantaneous forward voltage drop at 0.8 A (NOTE 1)	VF	0.5	0.55		0.7		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	IR			0.5			mA
				10			mA
Typical junction capacitance	CJ			80.0			pF
Typical thermal resistance	Rth-JA			75.0			°C/W
	Rth-JL			30.0			
Operating junction temperature range	Tj			-65 to +125			°C
Storage temperature range	Tstg			-65 to +150			°C

NOTE :

1. Pulse test : 300 us pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

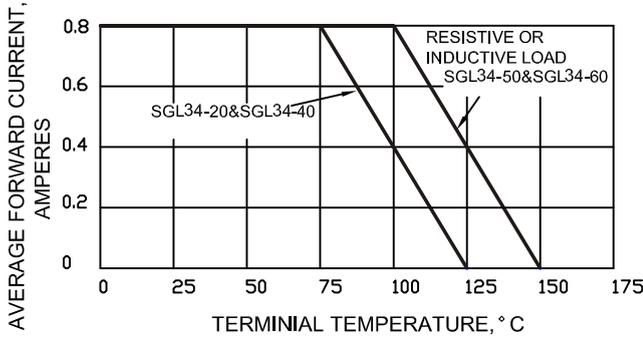


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

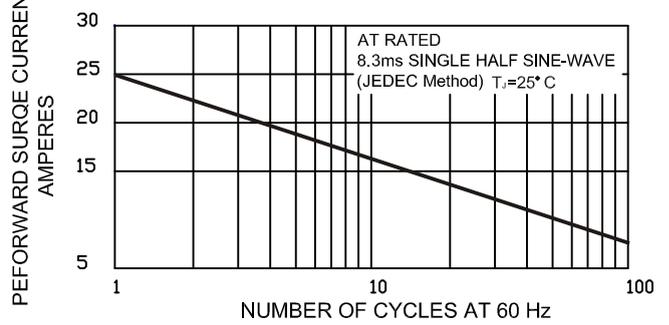


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

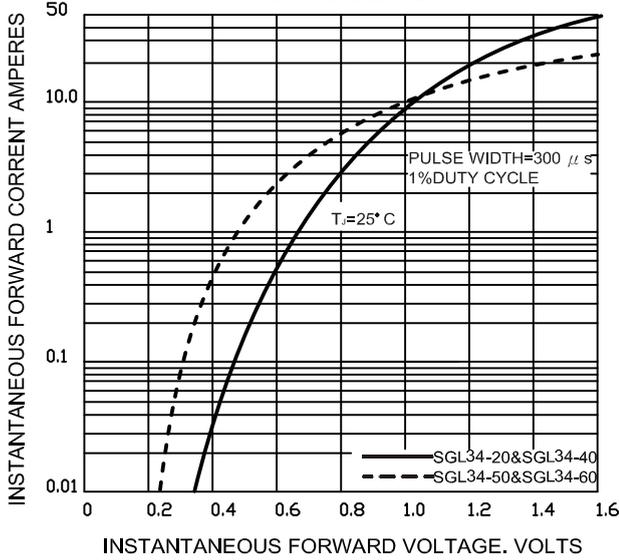


FIG.4-TYPICAL REVERSE CHARACTERISTICS

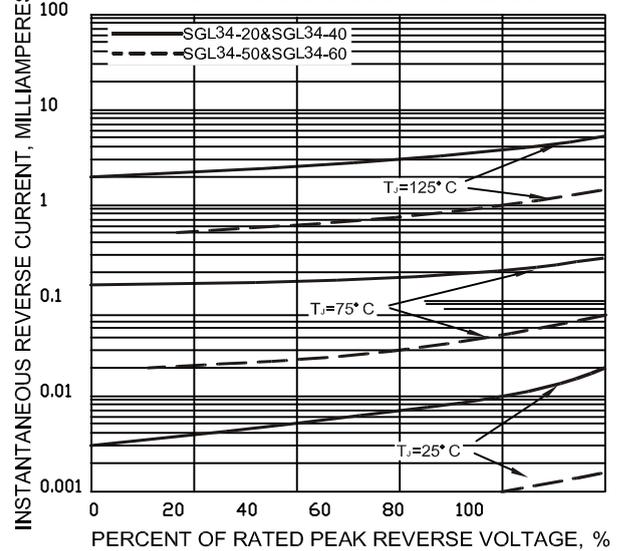
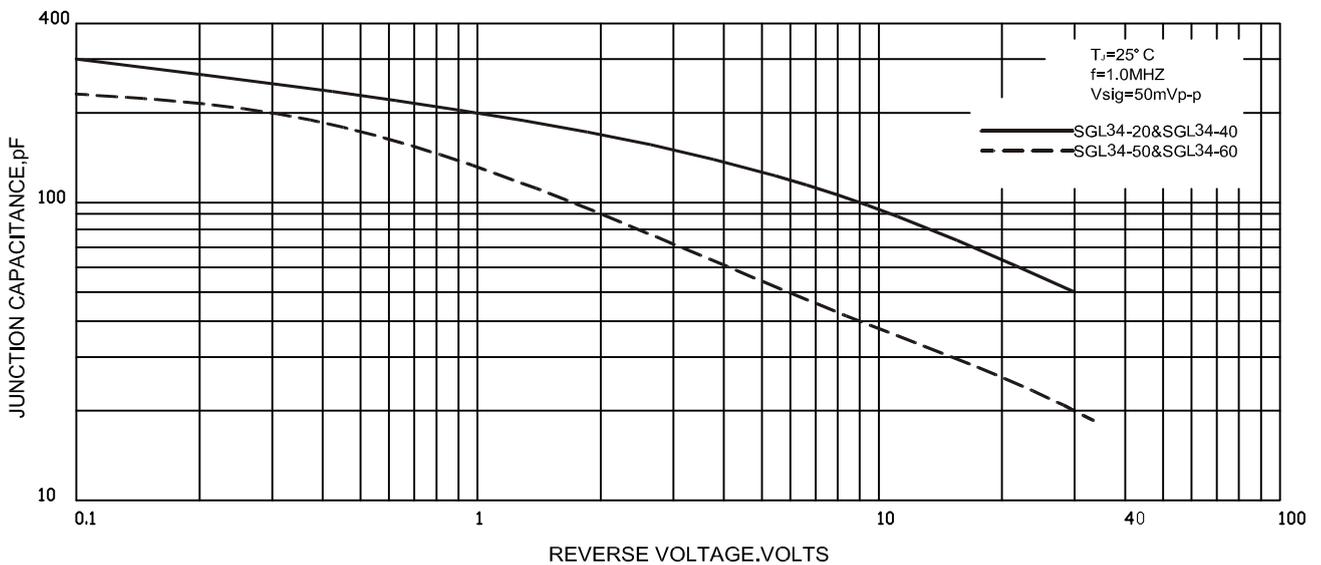
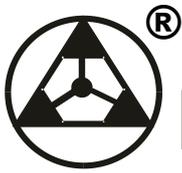


FIG.5-TYPICAL JUNCTION CAPACITANCE





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