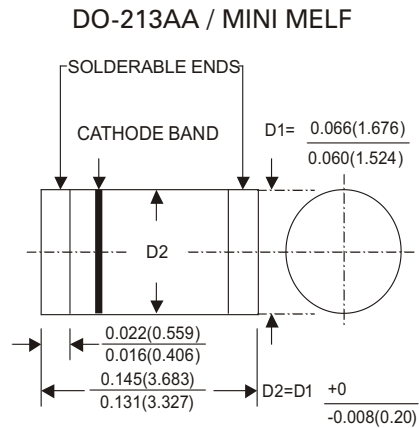


# SGL34-20 thru SGL34-60

## SURFACE MOUNT SCHOTTKY RECTIFIER



Dimension in inches (millimeters)

### FEATURES

- Low power loss, high efficiency
- High current and surge capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, Free wheeling application
- Guarding for over voltage 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 : 0.036gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%

	SYMBOL	SGL 34-20	SGL 34-30	SGL 34-40	SGL 34-50	SGL 34-60	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	Volts
Maximum RMS Voltage	$V_{RMS}$	14	24	28	35	42	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	0.5					Amps
Peak Forward Surge Current Sine-Wave on Rated Load (JEDEC Method)	$I_{FSM}$	25					Amps
Maximum Instantaneous Forward Voltage at 0.5A	$V_F$	0.45	0.55	0.6	0.7		Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=100^{\circ}C$	$I_R$	1.0			10		mA
Operating Junction Temperature Range	$C_J$	15					$^{\circ}C / W$
Typical Thermal Resistance	$C_J$	110			90		pF
Typical Junction Capacitance	$T_J$	-55 to +125			-55 to +150		$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150					$^{\circ}C$

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## SURFACE MOUNT SCHOTTKY RECTIFIER

### RATING AND CHARACTERISTICS CURVES SGL34-20 THRU SGL34-60

