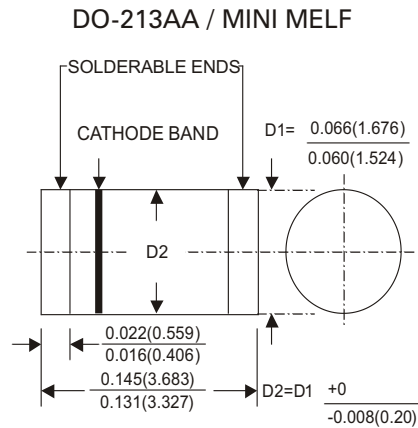


SGL34-20 thru SGL34-60

SURFACE MOUNT SCHOTTKY RECTIFIER



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 $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	1.0			10		mA
Operating Junction Temperature Range	C_J	15					$^\circ\text{C} / \text{W}$
Typical Thermal Resistance	C_J	110			90		μF
Typical Junction Capacitance	T_J	-55 to +125			-55 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150					$^\circ\text{C}$

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RATING AND CHARACTERISTICS CURVES SGL34-20 THRU SGL34-60

