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0.8A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

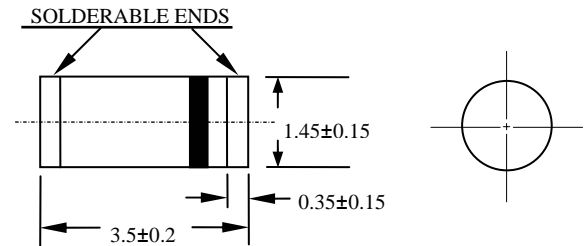
SGL34-02 THRU SGL34-06

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V-0 FLAME RETARDANT EPOXY MOLDING COMPOUND

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO-213AA (GL34) DIMENSIONS IN MILLIMETERS
- TERMINALS: SOLDERABLE PER MIL-STD-750, METHOD 2026
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 0.036 GRAM



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	SGL34-02	SGL34-03	SGL34-04	SGL34-05	SGL34-06	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	20	30	40	50	60	V
MAXIMUM RMS VOLTAGE	V_{RMS}	14	21	28	35	42	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	20	30	40	50	60	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_j=75^\circ\text{C}$	I_O	0.8					A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	10					A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_j	80					PF
MAXIMUM THERMAL RESISTANCE $R_{\theta jL}$ (NOTE 2)	$R_{\theta jL}$	30					°C/W
$R_{\theta jA}$ (NOTE 2)	$R_{\theta jA}$	75					
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150					°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125					°C

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	SGL34-02	SGL34-03	SGL34-04	SGL34-05	SGL34-06	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	0.5			0.7		V
MAXIMUM REVERSE CURRENT AT $T_j=25^\circ\text{C}$	I_R	0.5					mA
$T_j=100^\circ\text{C}$		10					

NOTE: 1. MEASURED AT 1.0 MHz AND APPLIED REVERSE VOLTAGE OF 4.0V D.C.

2. THERMAL RESISTANCE JUNCTION TO TERMINAL 6.0 mm × 6.0 mm COPPER PADS TO EACH TERMINAL

RATINGS AND CHARACTERISTIC CURVE SGL34-02 THRU SGL34-06

FIG. 1 - FORWARD CURRENT

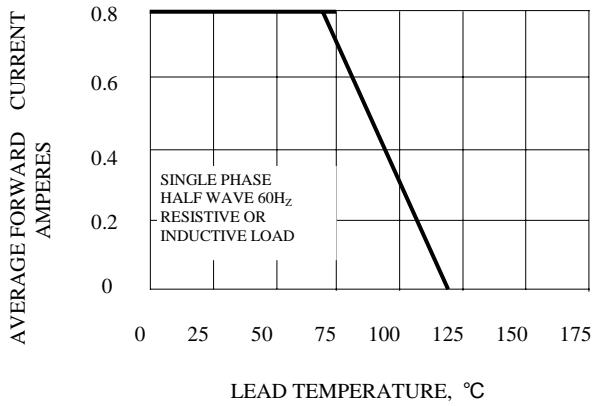


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

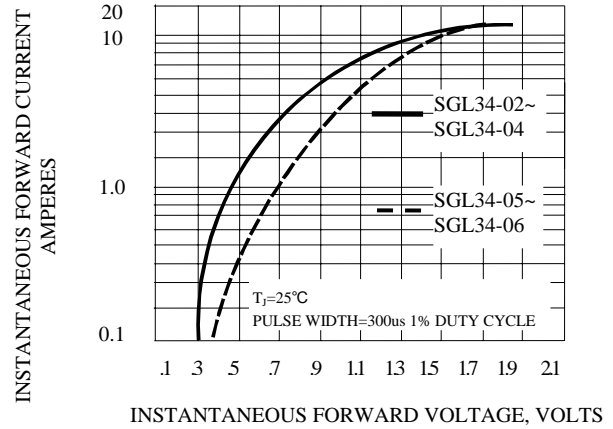


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

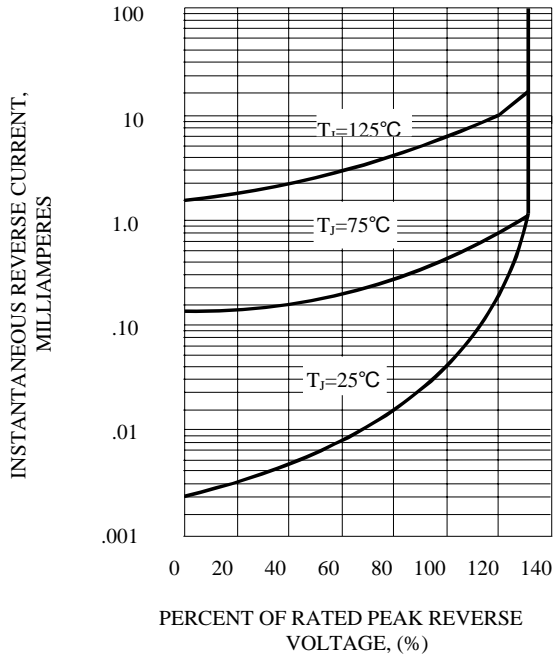


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

