DL5817 THRU DL5819

Reverse Voltage 20 to 40 Volts Forward Current - 1.0 Ampere

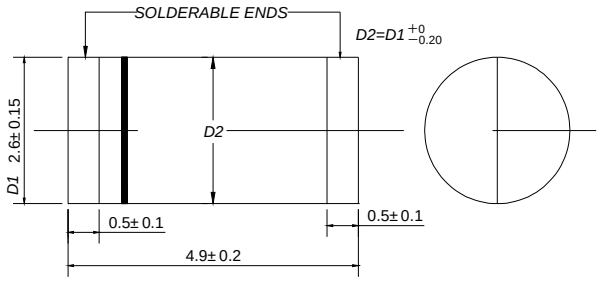
SURFACE MOUNT SCHOTTKYBARRIER RECTIFIER

Features

DO-213AB

RoHS COMPLIANT

- The plastic package carries Underwrites Laboratory
- Flammability classification 94V-0
- For surface mounted application
- Ideal for surface mounted applications
  Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol,Isopropnol



Dimensions in millimeters

Mechanical Data

Case : JEDEC DO-213AB Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight: 0.0046 ounces ,0.116 gram

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	SYMBOLS	MDD DL5817	MDD DL5818	MDD DL5819	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RMS}	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	V
Maximum average forward rectified current at TL=110℃	$I_{(AV)}$	1.0			A
Peak forward surge current 8.3ms single halfsine-wave superimposed onrated load (JEDECMethod)	I_{FSM}	25			A
Maximum instantaneous forward voltage at 1.0A (Note1) / at 3.0A	V_F	0.45 0.75	0.55 0.875	0.60 0.90	V
Maximum DC reverse current T_A=25℃ / at rated DC blocking voltage T_A=125℃	I_R	1.0 10.0			uA
Typical junction capacitance (NOTE 2)	C_J	110			pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	80.0			℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150			℃

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

2. Measured at 1.0MH$_Z$ and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to ambient,vertical PC board mounting,0.5"(12.7mm)lead length.

Ratings And Characteristic Curves

FIG.1 -- FORWARD DERATING CURVE

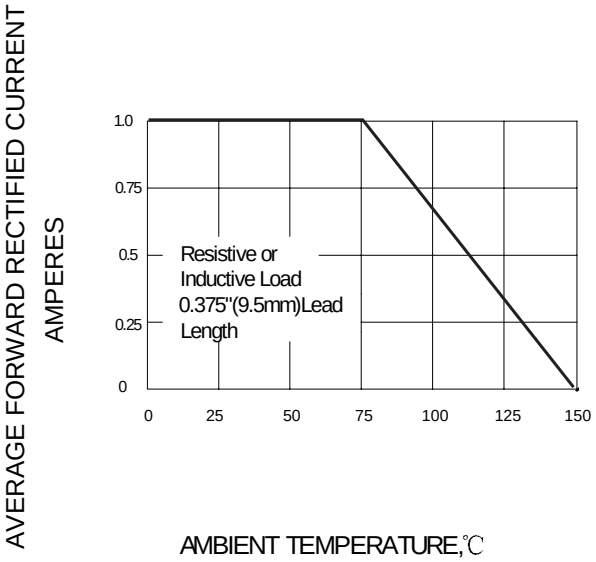


FIG.2 -- PEAK FORWARD SURGE CURRENT

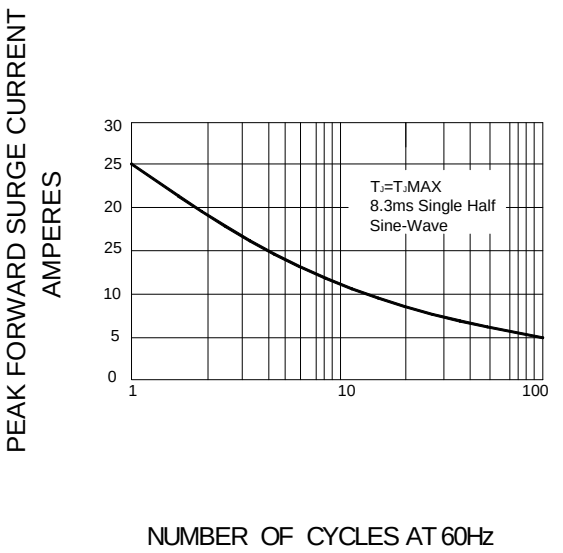


FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

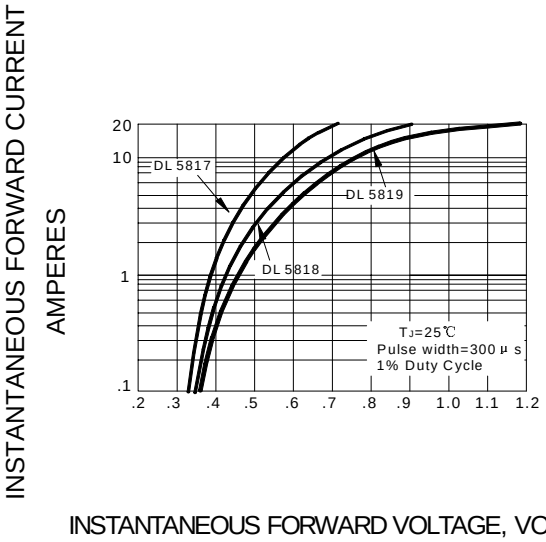


FIG.4 -- TYPICAL JUNCTION CAPACITANCE