

Surface Mount Schottky Barrier Rectifiers

FEATURES

- Plastic package has carries underwriters
- Ideal for automated placement
- Surge overload rating to 25 Ampers peak
- Reliable low cost construction utilizing molded plastic technique results in in-expensive product
- High temperature soldering :
 260°C/10 seconds at terminals
- Mounting position : Any
- Weight : 0.12 g
- Packing code with suffix "G" means
 Green compound (Halogen free)

MECHANICAL DATA

- Polarity: Indicated by blue cathode band









MAXIMUM RATINGS AND ELECTRICAL CHARAC	CTERISTICS	(T _A =25°C unle	ess otherwise i	noted)	
PARAMETER	SYMBOL	LL5817	LL5818	LL5819	UNIT
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	I _{F(AV)}	1		Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}		25		А
Maximum instantaneous forward voltage (Note 1) @ 1 A @ 3 A	V _F	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum reverse current @ rated VR T_J =25 °C T_J =100 °C	I _R		0.5 5		mA
Typical junction capacitance (Note 2)	Cj		110		pF
Typical thermal resistance	$R_{\theta JA}$	80		°C/W	
Operating junction temperature range	TJ	- 65 to +125			οС
Storage temperature range	T _{STG}	- 65 to +125		оС	

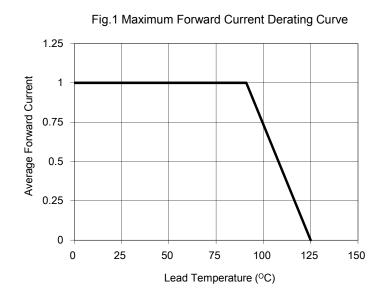
Note 1: Pulse test with PW=300µs, 1% duty cycle

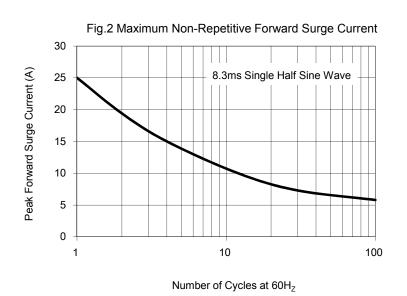
Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

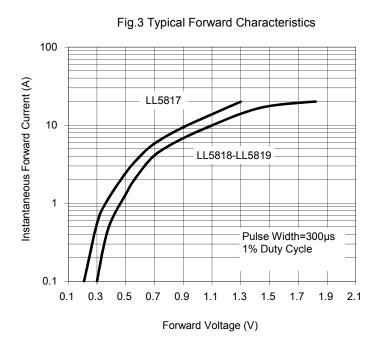


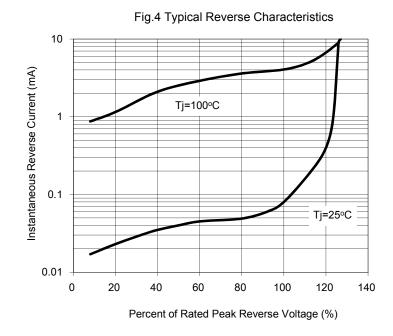
RATINGS AND CHARACTERISTICS CURVES

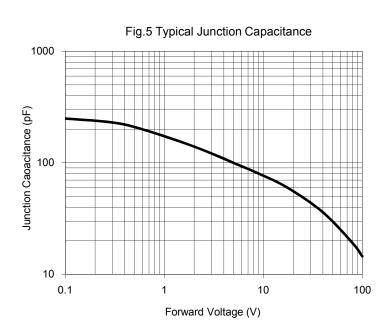
(T_A=25°C unless otherwise noted)

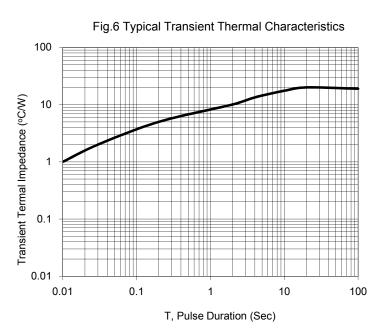












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ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX (Note 2)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
LL581x (Note 1)	-xx	LO	G	MELF	5,000 / 13" Reel

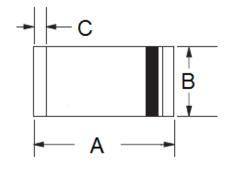
Note 1: "x" defines voltage from 20V (LL5817) to 40V (LL5819)

Note 2: Part No. Suffix "-xx " would be used for special requirement

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
LL5817 L0	LL5817		LO		Multiple manufacturer sources
LL5817-J0 L0	LL5817	-J0	LO	G	Defined manufacturer source, Green compound

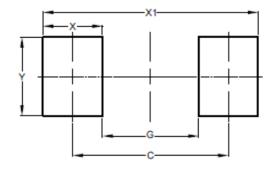
PACKAGE OUTLINE DIMENSIONS

MELF



DIM	Unit (mm)		Unit (inch)	
DIM.	Min	Max	Min	Max
Α	4.80	5.50	0.189	0.217
В	2.25	2.67	0.089	0.105
С	0.30	0.60	0.012	0.024

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
DIIVI.	Тур.	Тур.
С	4.80	0.189
G	3.30	0.130
Х	1.50	0.059
X1	6.30	0.248
Y	2.70	0.106





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