



Small Signal Product

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
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC

- Terminal : Pure tin plated, lead free

- Weight: 0.12 grams





MELF



MECHANICAL DATA

- Polarity: Indicated by blue cathode band

MAXIMUM RATINGS AND ELECTRICAL CHARA	CTERISTICS	(T _A =25°C u	nless other	wise noted)		
PARAMETER	SYMBOL	LSR102	LSR103	LSR104	LSR105	LSR106	UNIT
Maximum repetitive 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	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	V _F	0.55 0.70		.70	V		
Maximum reverse current @ rated VR T_J =25 °C I_R		1					mA
		10				111/4	
Typical junction capacitance (Note 2)	Cj		110		8	30	pF
Typical thermal resistance	$R_{\theta JA}$			80			°C/W
Operating junction temperature range	TJ		-65 to +125		-65 to	+150	οС
Storage temperature range	T _{STG}			- 65 to +150)		οС

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.

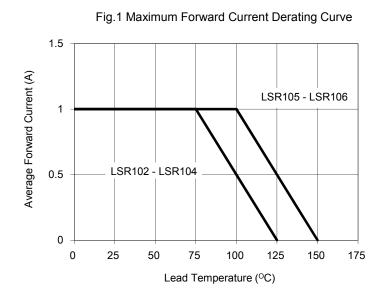
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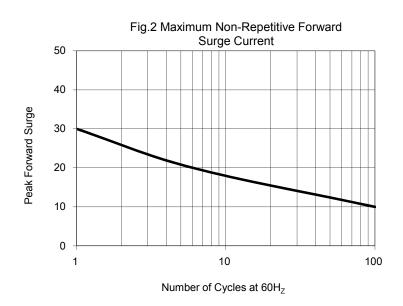


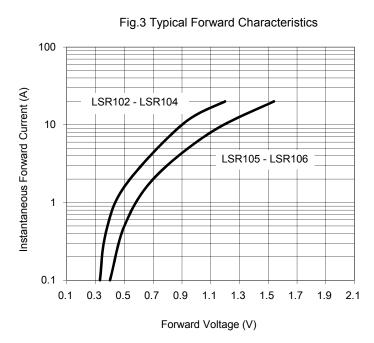
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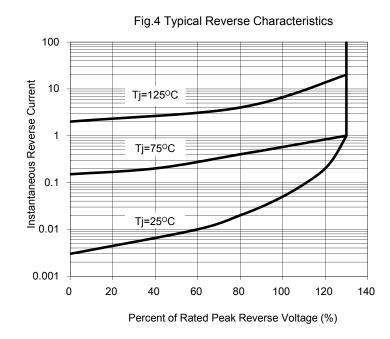
RATINGS AND CHARACTERISTICS CURVES

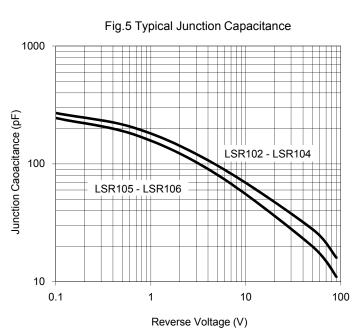
(TA=25°C unless otherwise noted)

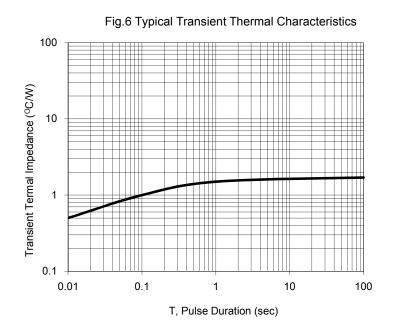












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ORDERING INFORMATION				
PART NO.	PART NO. SUFFIX (Note 2)	PACKING CODE	PACKAGE	PACKING
LSR10x (Note 1)	-XX	LO	MELF	5K / 13" Reel

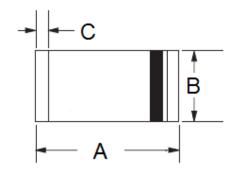
Note 1: "x" defines voltage from 20V (LSR102) to 60V (LSR106)

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

EXAMPLE				
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	DESCRIPTION
LSR102 L0	LSR102		L0	Multiple manufacture source
LSR102-J0 L0	LSR102	-J0	LO	Define manufacture source

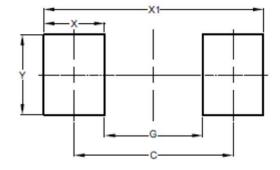
PACKAGE OUTLINE DIMENSIONS

MELF



DIM	DIM. Unit (mm) Min Max		Unit (inch)			
DIM.			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		
Υ	2.70	0.106		

Taiwan Semiconductor



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