

LSR102 - LSR106

MELF

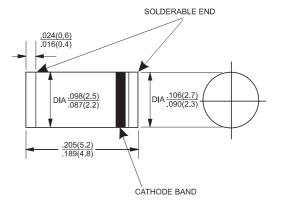


1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Features

- ♦ Surge overload ratings to 40 amperes peak
- ♦ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ♦ Terminal : Pure tin plated, lead free
- ♦ Mounting position: Any
- ♦ Weight: 0.12 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

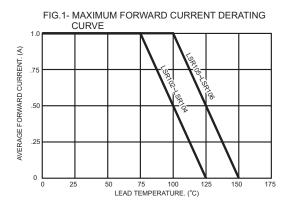
Type Number	Symbol	LSR102	LSR103	LSR104	LSR105	LSR106	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	1.0					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30					Α
Maximum Instantaneous Forward Voltage @1.0A	V_{F}	0.55 0			0.	70	V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	1.0 10					mA mA
Typical Junction Capacitance (Note)	Cj	110		80		pF	
Typical Thermal Resistance	$R_{\theta JA}$	15					°C/W
Operating Temperature Range	T_J	- 65 to + 125		- 65 to + 150		ç	
Storage Temperature Range	T_{STG}	- 65 to + 150					°C

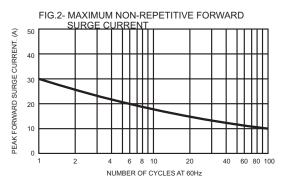
Note: Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Version: A06

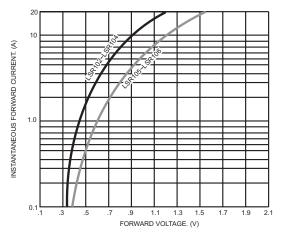


RATINGS AND CHARACTERISTIC CURVES (LSR102 THRU LSR106)









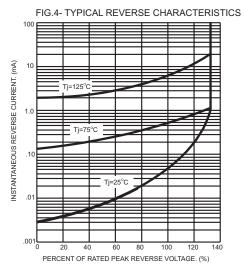


FIG.5- TYPICAL JUNCTION CAPACITANCE

