

LSR102 THRU LSR106

1.0 AMP. Surface Mount Schottky Barrier Rectifiers

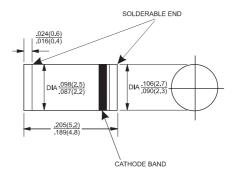


Voltage Range 20 to 60 Volts Current 1.0 Ampere

MELF

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
- ♦ 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 0.70			70	V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	1.0 10					mA mA
Typical Thermal Resistance	$R\theta JA$	15					°C/W
Typical Junction Capacitance (Note)	Cj		110		80		рF
Operating Temperature Range	TJ	- 6	65 to + 1	25	- 65 to	+ 150	°C
Storage Temperature Range	T_{STG}	- 65 to + 150					

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

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RATINGS AND CHARACTERISTIC CURVES (LSR102 THRU LSR106)

FIG.2- TYPICAL FORWARD CHARACTERISTICS

20
10
10
10
1.1
3.5
7.9
1.1
1.3
1.5
1.7
1.9
2.1
FORWARD VOLTAGE. (V)

FIG.3- TYPICAL REVERSE CHARACTERISTICS

