◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product

◇ Terminal : Pure tin plated,lead free

◇ Mounting position : Any

◇ Weight : 0.12 grams

Ordering Information (example)

Part No.	Package	Packing	Packing code	Packing code (Green)	Manufacture c
LSR102	MELF (Plastic)	5K / 13 " Reel	L0	-	J0

Note : Detail please see "Ordering Information(detail, example)" below.

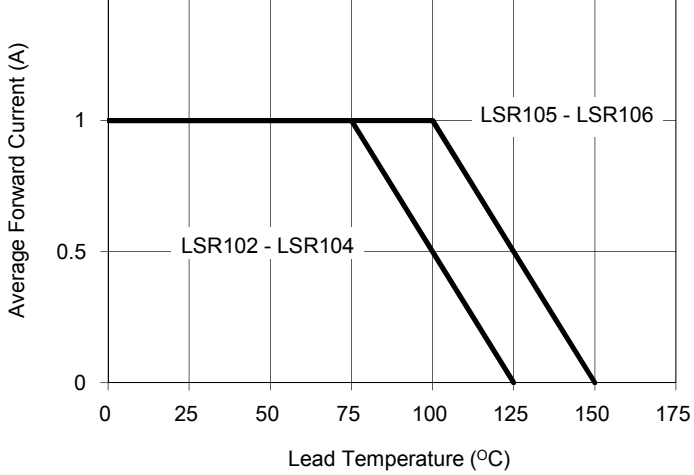
Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	LSR102	LSR103	LSR104	LSR105	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	
Maximum Average Forward Rectified Current See Fig.1	$I_{F(AV)}$	1.0				
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	25				
Maximum Instantaneous Forward Voltage @1.0 A	V_F	0.55			0.70	
Maximum DC Reverse Current @T_A=25°C	I_R	1.0				
Rated DC Blocking Voltage (Note1) @T_A =125°C		10				
Typical Junction Capacitance (Note2)	Cj	110			80	
Typical Thermal Resistance	$R_{\theta JA}$	80				
Operating Temperature Range	T_J	-65 to + 125			-65 to +	
Storage Temperature Range	T_{STG}	-65 to + 150				

Note : 1. Pulse test with PW = 300 μsec, 1% Duty Cycle

2. Measured at 1 MH_Z and applied reverse voltage of 4.0 V D.C



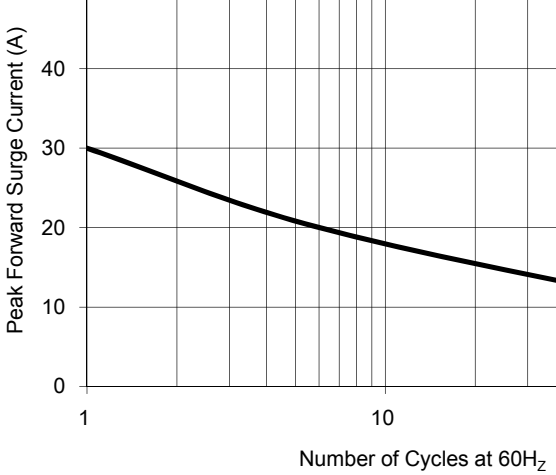
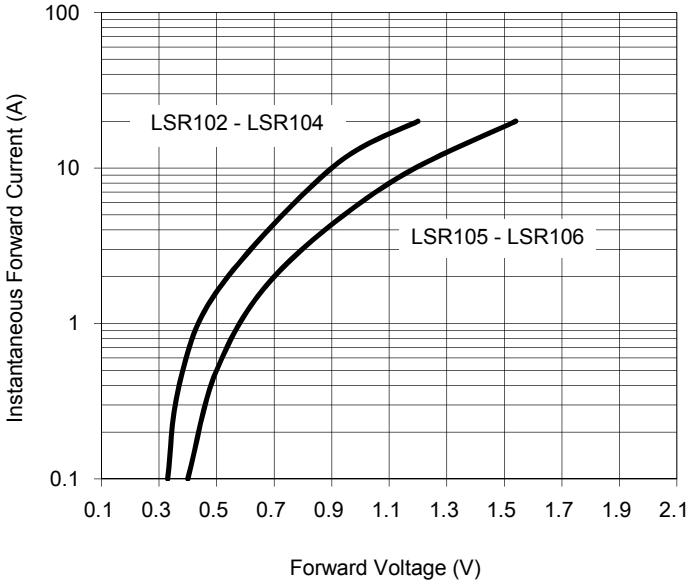


Fig.3 Typical Forward Characteristics

Fig.4 Typical Reverse Characte



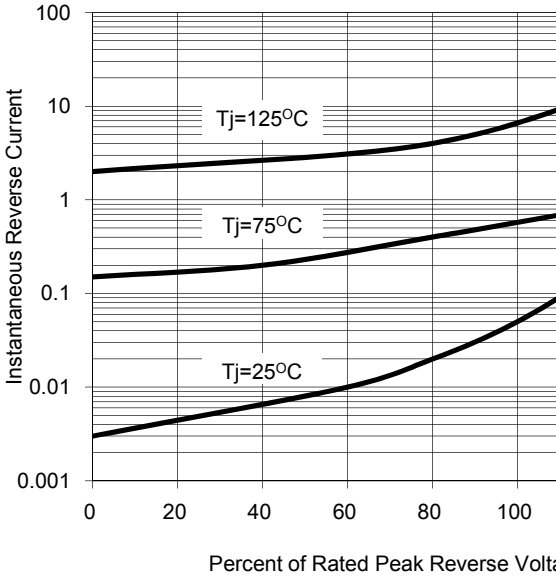
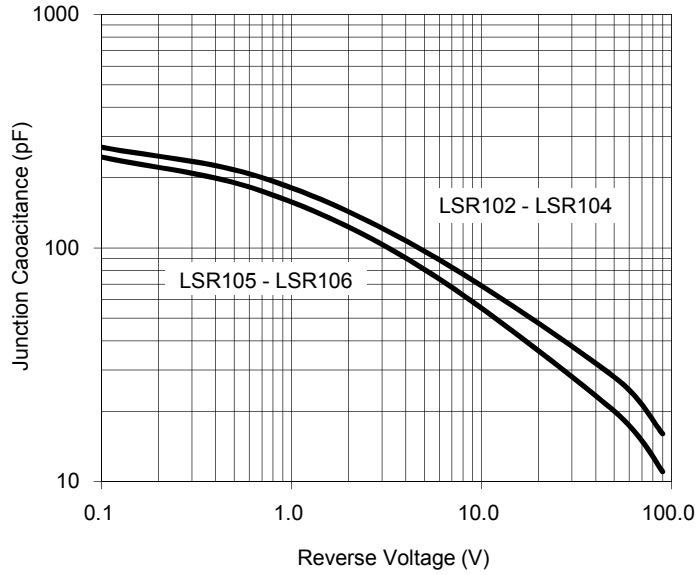
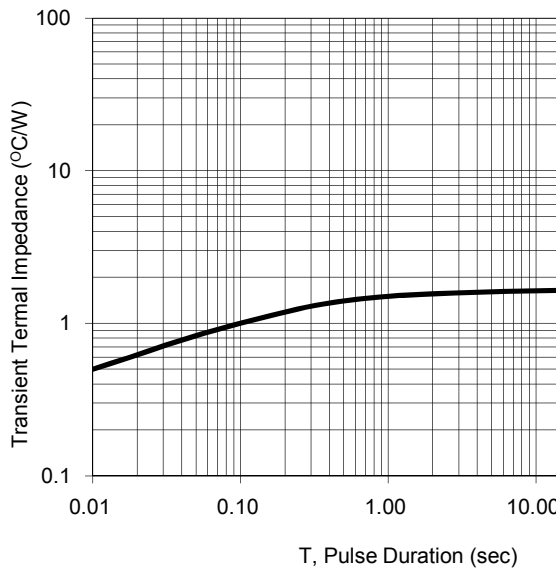


Fig.5 Typical Junction Capacitance

Fig.6 Typical Transient Thermal Cha





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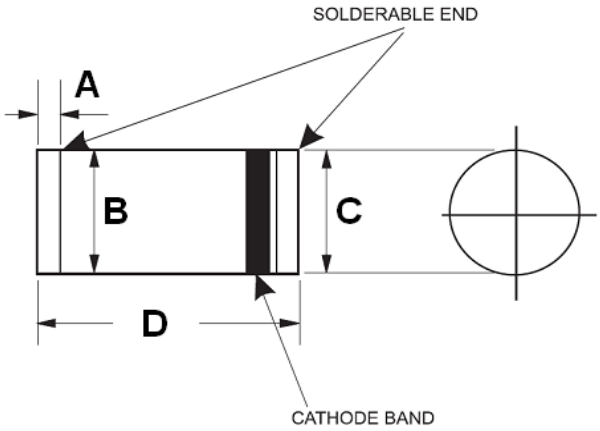
Part No.	Package	Packing	Packing code (Green)	Marking code
LSR10X (Note 1)	MELF (Plastic)	5K / 13" Reel	L0	-	(Note
LSR102	MELF (Plastic)	5K / 13" Reel	L0	-	
LSR102	MELF (Plastic)	5K / 13" Reel	L0	-	J0

Note 1 : "X" is Device Code from "2" to "6".

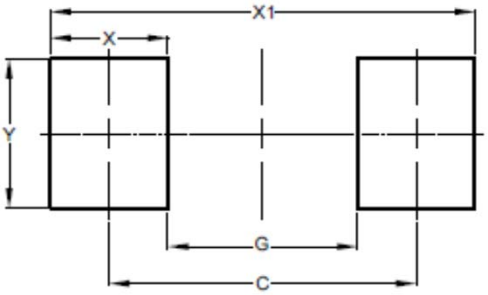
Note 2 : Manufacture special control, if empty means no special control requirement.

Dimensions



DIM.	Unit(mm)		Unit(in
	Min	Max	Min
A	0.4	0.6	0.016
B	2.2	2.5	0.087
C	2.3	2.7	0.090
D	4.8	5.2	0.189

Suggested PAD Layout



DIM.	Unit(mm)	Unit(in
	Typ.	Typ
C	4.80	0.189
G	3.30	0.130
X	1.50	0.059
X1	6.30	0.248
Y	2.70	0.106