

Micro Commercial Components



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Features

- Fast Switching Speed and Low Turn-on Voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)

Mechanical Data

- Case: Minimelf, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

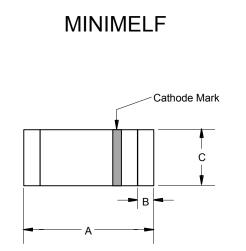
Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V _{RRM}	30	V
Forward Continuous Current(Note2)	I _F	200	mA
Surge Forward Current @ t _p < 10ms, T _A =25°C	I _{FSM}	4.0	А
Power Dissipation(Note 2)	P _{tot}	200	mW
Thermal Resistance(Note 2)	$R_{ heta JA}$	250	K/W
Operation Temperature Range	T _A	-65 to 150	°C
Storage Temperature Range	T _{STG}	-65 to 150	°C

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

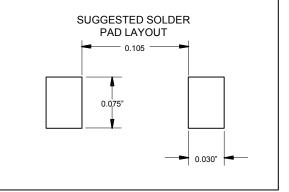
2. Valid provided that electrodes are kept at ambient temperature.

LL42 LL43

Small Signal Schottky Diode



DIMENSION						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
А	.130	.146	3.30	3.70		
В	.008	.016	0.20	0.40		
С	.055	.059	1.40	1.50		



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Revision: A

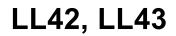


LL42, LL43

Test Conditions Symbol Unit Parameter Туре Min Тур Max $V_{(BR)R}$ V Reverse breakdown voltage 30 I_F=10mA LL42 V_{F} 0.4 V I_F=200mA LL42 V_{F} 1.0 V 0.33 V I_F=2mA LL43 V_{F} 0.26 Forward voltage I_F=15mA LL43 V_{F} 0.45 V LL43 I_F=50mA V_F 0.65 V I_F=200mA LL43 V_{F} 1.0 V $V_R = 25V$ **Reverse current** 0.5 I_R μΑ Pulse test $t_p < 300 \mu s$, $\delta < 0.5$ V_R=25V, T_i=100℃ 100 7.0 Capacitance $V_R=1V$, f=1MHz C_{tot} pF Reverse recovery time I_F =10mA, I_R =10mA 5.0 t_{rr} ns $I_{rr}=1mA$, $R_{L}=100\Omega$

Maximum Ratings @ 25°C Unless Otherwise Specified

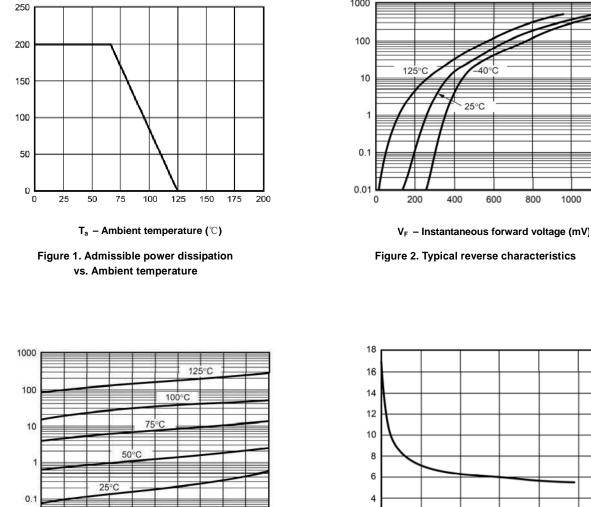
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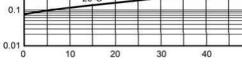
1000

1200



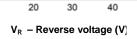
50

1000



V_R – Reverse voltage (V)

Figure 3. Typical reverse characteristics



40

50

60

Figure 4. Typical capacitance vs. reverse applied voltage

20

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2

0

0

10



Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

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