



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phon: (818) 701-4933 F x: (818 701-4939 LL42 LL43

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

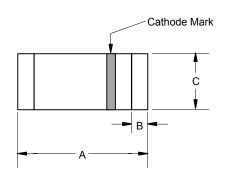
Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	30	V
Forward Continuous Current(Note2)	I _F	200	mA
Surge Forward Current @ t_p < 10ms, T_A =25°C	I _{FSM}	4.0	А
Power Dissipation(Note 2)	P _{tot}	200	mW
Thermal Resistance(Note 2)	$R_{ heta JA}$	250	K/W
Operation Temperature Range	T _A	-65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

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

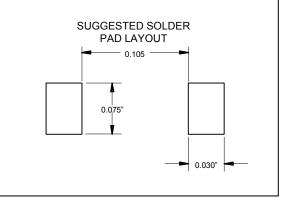
2. Valid provided that electrodes are kept at ambient temperature.

Small Signal Schottky Diode

MINIMELF



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



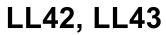
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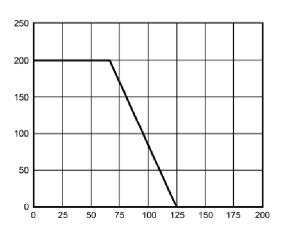
LL42, LL43

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Reverse breakdown voltage			$V_{(BR)R}$	30			V
Forward voltage	I _F =10mA	LL42	V _F			0.4	V
	I _F =200mA	LL42	V _F			1.0	V
	I _F =2mA	LL43	V _F	0.26		0.33	V
	I _F =15mA	LL43	V_{F}			0.45	V
	I _F =50mA	LL43	V_{F}			0.65	V
	I _F =200mA	LL43	V_{F}			1.0	V
Reverse current	V _R =25V		I _R			0.5	
Pulse test t _p <300μs, δ<0.5	V _R =25V, T _j =100°C				100	μΑ	
Capacitance	V _R =1V, f=1MHz		C _{tot}		7.0		pF
Reverse recovery time	I _F =10mA, I _R =10mA		t _{rr}		5.0	nc	
	$I_{rr}=1$ mA, $R_L=100\Omega$					5.0	ns

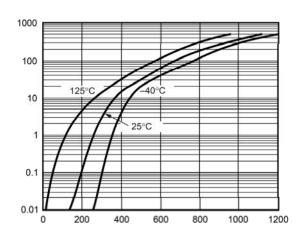






T_a - Ambient temperature (°C)

Figure 1. Admissible power dissipation vs. Ambient temperature



V_F - Instantaneous forward voltage (mV)

Figure 2. Typical reverse characteristics

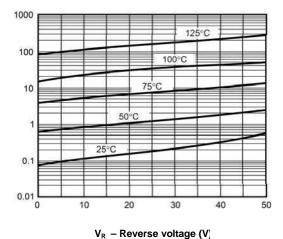


Figure 3. Typical reverse characteristics

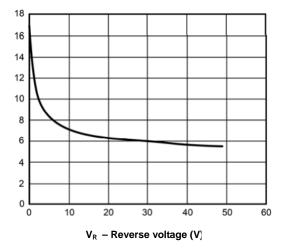


Figure 4. Typical capacitance vs. reverse applied voltage

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Ordering Information:

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

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