

LOW CAPACITANCE DIODE ARRAY

www.sot23.com.tw

Features

- Ultra low capacitance: 1 pF Max I/O to GND
- Ultra low leakage: nA level
- Low operating voltage: 70V
- Uni-directional TVS Diode Array
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±15kV
 Contact discharge: ±8 kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
- ROHS Compliant

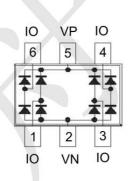
Mechanical Characteristics

- Package: SOT23-6
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020

Applications

- USB 2.0 and Firewire Port Protection
- LAN / WLAN Access Point terminals
- Video Signal Line Protection

Dimensions and Pin Configuration



Marking: 64.*

SOT23-6

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Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNITS	
Rectifier Repetitive Peak Reverse Voltage	Vrrm	70	v	
ESD per IEC61000-4-2 (Air)	Vesd	>15	137	
ESD per IEC61000-4-2 (Contact)		>8	kV	
Surge Non Repetitive Forward Current-Rectangular waveform		C		
tp=2.5µs	1	6		
tp=1ms	IFRM	2	A	
tp=100ms				
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to 150	°C	

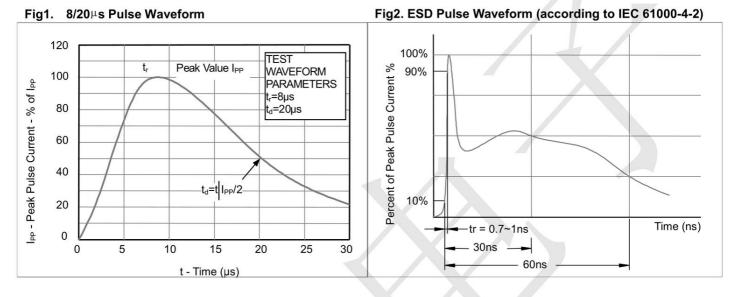
Electrical Characteristics (TA=25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Peak Reverse Stand-Off Voltage	Vrrm		-	-	70	V
Reverse Breakdown Voltage	V _{BR}	Ι _{BR} =50μΑ	85	-	- 1	V
Reverse Leakage Current	I _R	V _{RWM} =70V		0.1	1	μA
Off State Junction Capacitance	CJ	0Vdc, f=1MHz	-	-	1	pF
		between I/O lines and GND				
Off State Junction Capacitance		0Vdc, f=1MHz		-	0.9	pF
On State Junction Capacitance	CJ	between I/O lines	-			



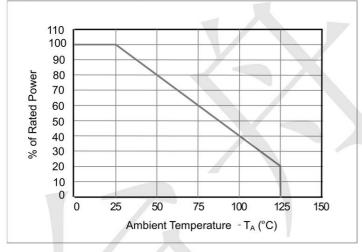
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Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

Fig3. Power Derating Curve

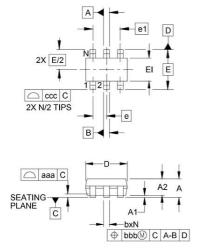


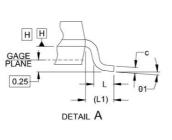


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Outline Drawing - SOT23-6

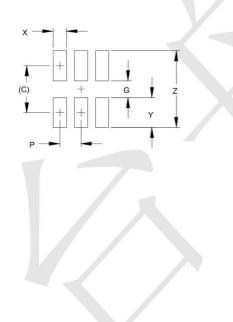






		DIN	IENSI	ONS		
DIM	11	INCHES		MILLIMETERS		ERS
MI	MIN	NOM	MAX	MIN	NOM	MAX
Α	.035	-	.057	0.90	-	1.45
A1	.000	-	.006	0.00	-	0.15
A2	.035	.045	.051	.90	1.15	1.30
b	.010		.020	0.25		0.50
С	.003	-	.009	0.08		0.22
D	.110	.114	.118	2.80	2.90	3.00
E1	.060	.063	.069	1.50	1.60	1.75
E	.110 BSC			2.80 BSC		
е	.037 BSC			0.95 BSC		
e1	.075 BSC			1.90 BSC		
L	.012	.018	.024	0.30	0.45	0.60
L1	(.024)				(0.60)	
N	6			6		
01	0°		10°	0°	-	10°
aaa	.004				0.10	
bbb	.008		0.20			
CCC	.008				0.20	

Land Pattern - SOT23-6



DIMENSIONS				
DIM	INCHES	MILLIMETERS		
С	(.098)	(2.50)		
G	.055	1.40		
P	.037	0.95		
X Y	.024	0.60		
Y	.043	1.10		
Z	.141	3.60		