

Features

400W peak pulse power (8/20µs)

Ultra low leakage: nA level

Operating voltage: 7V or 12V

Low clamping voltage

Complies with following standards:

- IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV Contact discharge: ±30kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

- IEC61000-4-5 (Lightning) 17A (8/20µs)

RoHS Compliant

Mechanical Characteristics

Package: SOT-23Lead Finish: Matte Tin

Case Material: "Green" Molding Compound.

UL Flammability Classification Rating 94V-0

• Moisture Sensitivity: Level 3 per J-STD-020

Terminal Connections: See Diagram Below

Shipping Qty:3000pcs/7Inch Tape & Reel

Applications

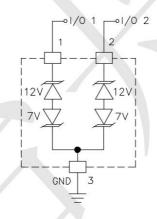
Wireless System

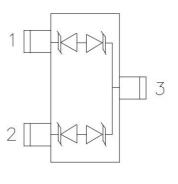
Networks

Portable Instrumentation

RS485 Ports

Dimensions and Pin Configuration





2021.5.1



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

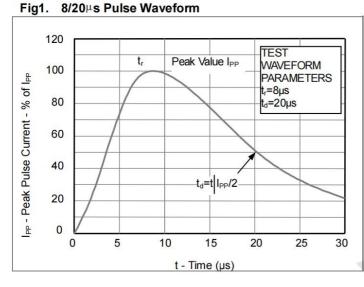
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ppk	400	W	
Peak Pulse Current (8/20µs)	lpp	17	А	
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	Vesd	±30 ±30	kV	
Operating Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	Tstg	-55 to +150	°C	

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

Symbol	Pin 1 to 3 and 2 to 3 (12V TVS)		Pin 3 to 1 and 3 to 2 (7V TVS)					
	•		78.0				Unit	Test Condition
VRWM			12			7	٧	
VBR	13.3			7.5			V	IT = 1mA
I _R		/_	0.05			2.0	uA	VR = VRWM
Vc			20	1	V,	10	V	IPP = 5A (8 x 20µs pulse)
Vc			26			12	V	IPP = 17A (8 x 20µs pulse)
СЛ			75			75	pF	VR = 0V, f = 1MHz
	VRWM VBR I _R VC VC	Symbol Min VRWM VBR 13.3 IR VC VC	VRWM VBR 13.3 IR VC VC	2 to 3 (12V TVS) Symbol Min Typ Max 12 VBR 13.3	2 to 3 (7	2 to 3 3 to 2 (7V TV TVS) (7V TV TVS) (7V TV TV TV TV TV TV TV TV	2 to 3 3 to 2 (12V TVS) Symbol Min Typ Max VRWM 12 7 VBR 13.3 7.5 IR 0.05 2.0 VC 20 10 VC 26 12	2 to 3 (12V TVS) 3 to 2 (7V TVS) Symbol Min Typ Max Min Typ Max Unit VRWM 12 7 V VBR 13.3 7.5 V I _R 0.05 2.0 uA VC 20 10 V VC 26 12 V



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



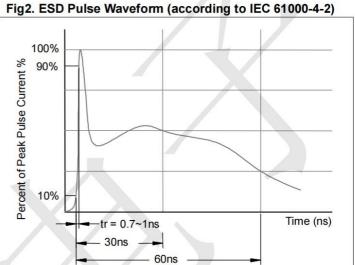
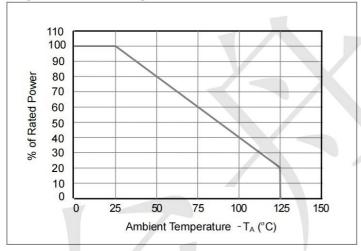
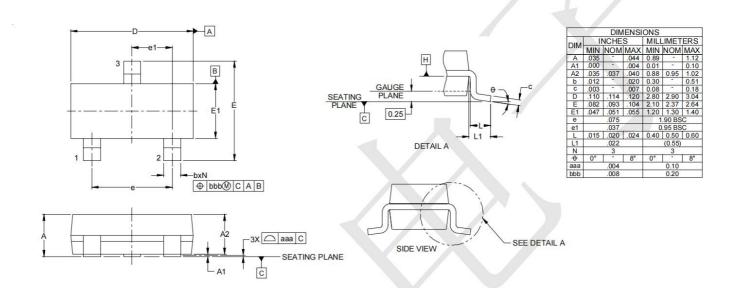


Fig3. Power Derating Curve

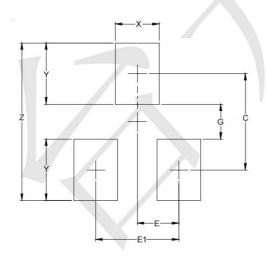




Outline Drawing - SOT23



Land Pattern - SOT23



DIMENSIONS					
DIM	INCHES	MILLIMETERS			
С	(.087)	(2.20)			
Е	.037	0.95			
E1	.075	1.90			
G	.031	0.80			
X	.039	1.00			
Y	.055	1.40			
Z	.141	3.60			