

Features

- Up To 4 Data Lines And One Power Line Protects
- Ultra Low Capacitance
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±12KV		
IEC01000-4-2 (ESD)	Contact	±12KV		
Peak Pulse Current (8/20µs)	I _{PP}	3A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	45W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

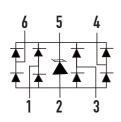
Note :

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

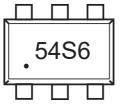
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure

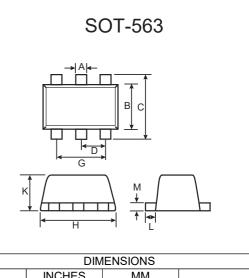
Marking Code



Pin1, 3, 4, 6	I/O Pin
Pin2	GND
Pin5	VCC



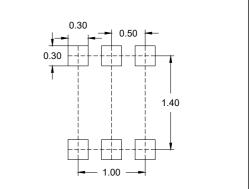




DIVIENSIONS					
DIM IN		HES	MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
Α	0.006	0.011	0.15	0.30	
В	0.043	0.051	1.10	1.30	
С	0.059	0.067	1.50	1.70	
D	0.0	20	0.8	50	TYP.
G	0.035	0.043	0.90	1.10	
Н	0.059	0.067	1.50	1.70	
K	0.020	0.023	0.52	0.60	
L	0.004	0.011	0.10	0.30	
М	0.004	0.007	0.10	0.18	

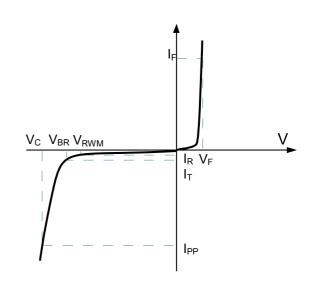
SUGGESTED SOLDER PAD LAYOUT

(mm)





Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
IT	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _c	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
CJ	Junction Capacitance	
I _F	Forward Current	
V _F	Forward Voltage @ IF	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Forward Voltage	V _F	I _F =10mA			1.2	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			12	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =3A, t _P =8/20μs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.5	0.8	pF
Dynamic Resistance ^{Note2}	R _{DYN}	TLP, t _P =100ns		0.75		Ω

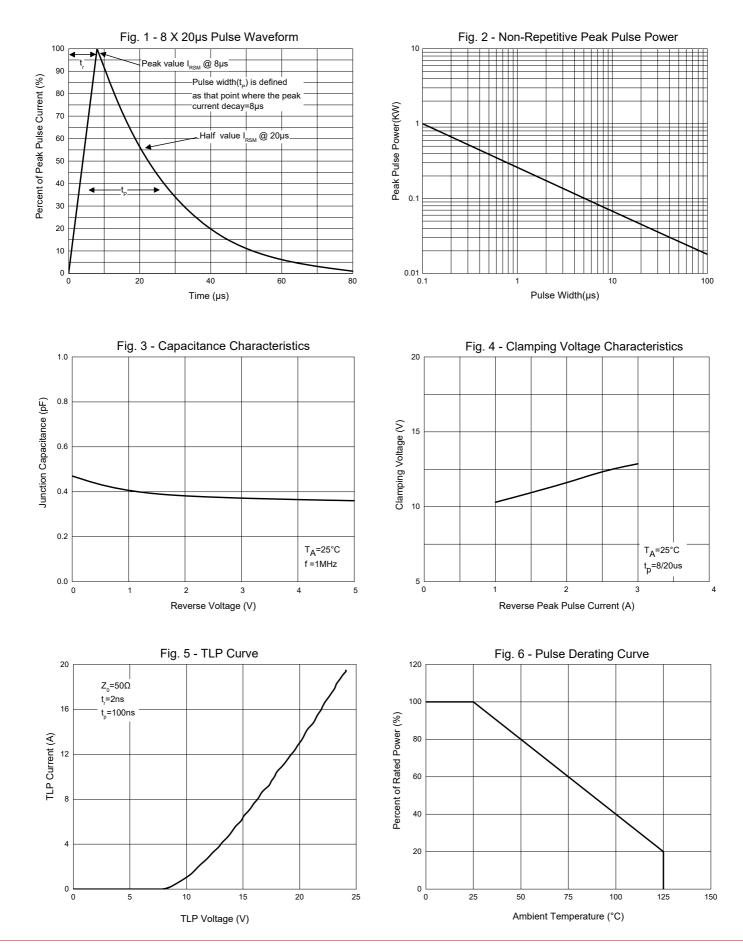
Note :

1.Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

2.TLP parameter: Z0=50Ω, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.



Curve Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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