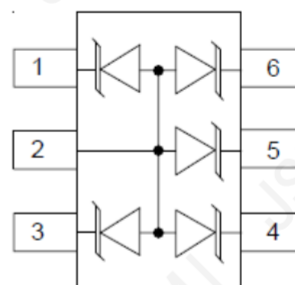
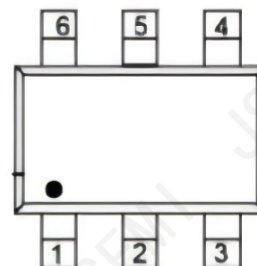


Description

The PESD3V3L5UY,115-JSM is a ESD array designed to protect five I/O lines against ESD and latch-up surges. Utilizing advanced technology, it offers high peak pulse power handling and fast response time, making it suitable for voltage-sensitive electronic devices. The device features a compact SOT-363 package, low leakage current, and complies with RoHS standards, ensuring reliability in various applications.

Features

- 100W (8/20 μ s) Peak Pulse Power
- ESD and Latch-Up Protection
- SOT-363 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect Five I/O Lines
- Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 20kV
 - Air Discharge > 20kV



SOT-363

Applications

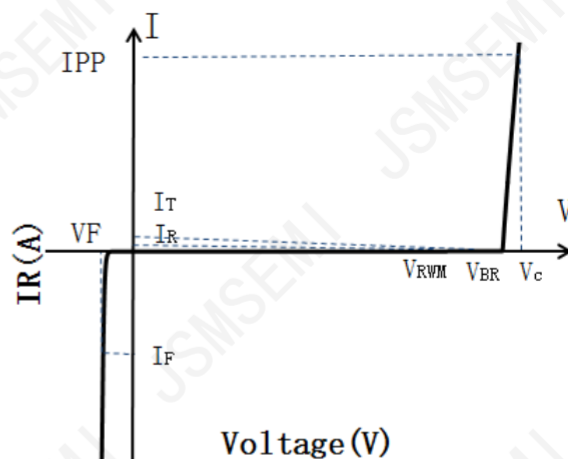
- Peripherals
- Audio Players
- Digital Cameras
- Cordless Phones
- Portable Instrumentation
- Notebooks and Handhelds
- Personal Digital Assistants (PDA,s)
- Cellular Handsets and Accessories

Maximum Ratings(T_A=25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	100	W
IPP	Peak Pulse Current	6	A
VESD(Contact)	Contact ESD Voltage per IEC61000-4-2	20	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	20	kV
TJ	Junction Temperature	-55 to +125	°C
TSTG	Storage Temperature	-55 to +150	°C

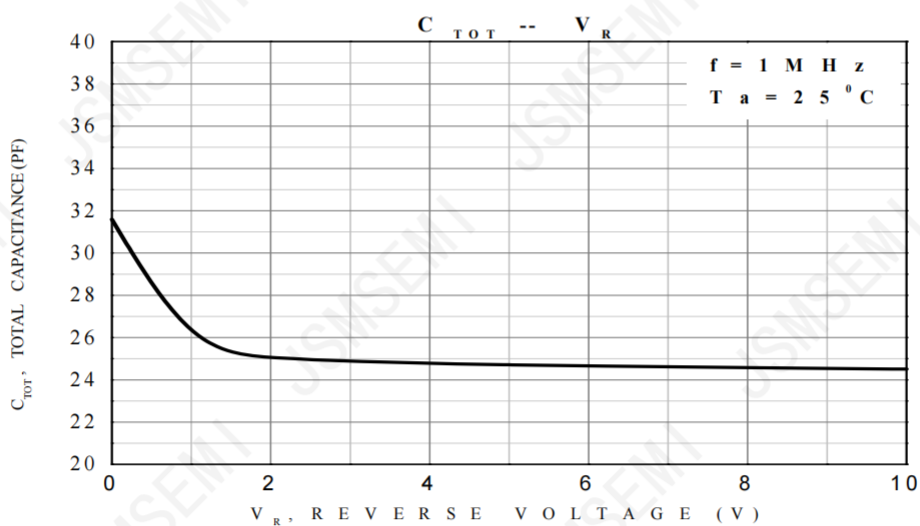
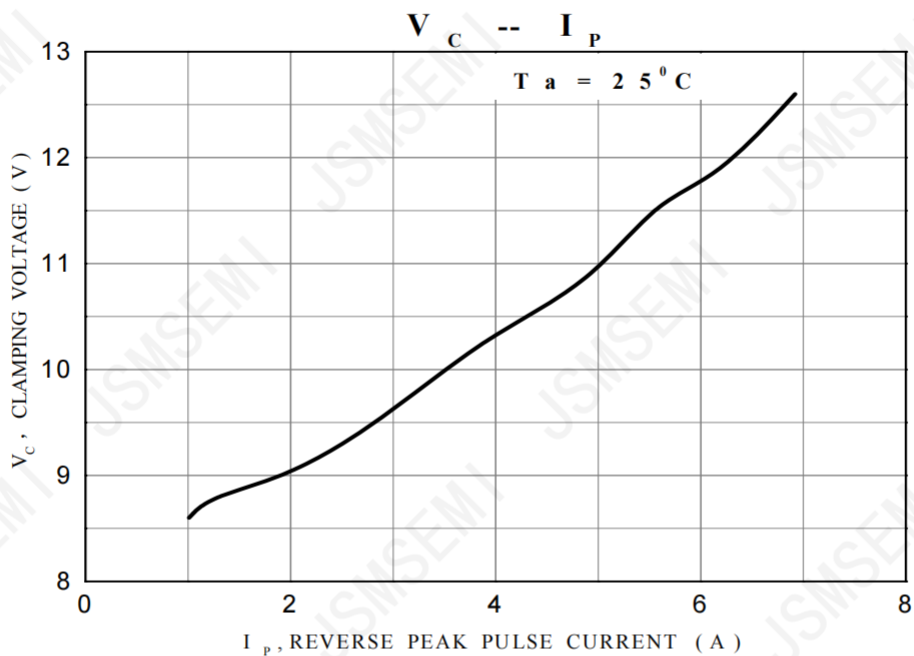
Maximum Ratings(TA=25°C)

Symbol	Parameter
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @Ic

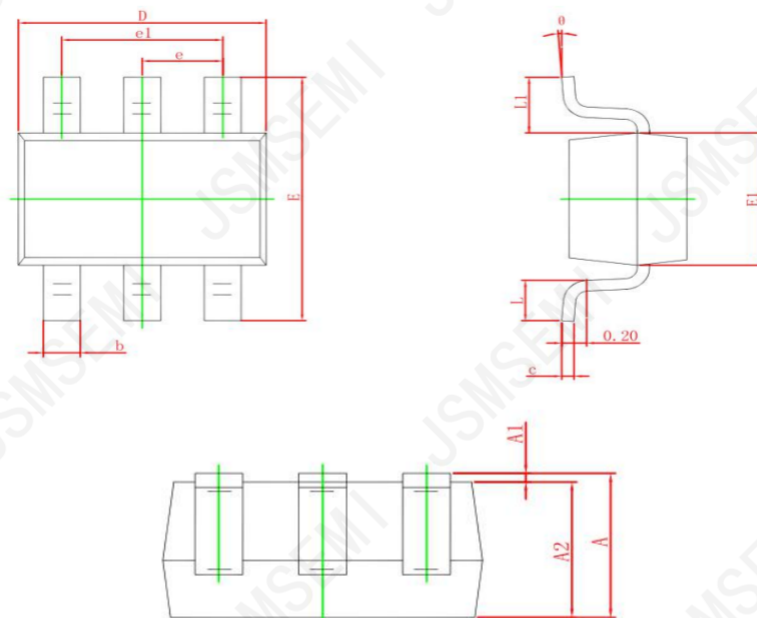

Electrical Characteristics(TA=25°C unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	IT=1mA	6		8	V
IR	Reverse Leakage Current	VRWM=5V			5	μA
Vc	Clamping Voltage	IPP=1A(8/20μs)			10	V
Vc	Clamping Voltage	IPP=6A(8/20μs)			18	V
CJ	Capacitance	VR=0V,f=1MHz		50		pF

Typical Performance Curves



Package Outline Dimensions



Symbol	Dim in mm		
	Min	Nor	Max
A	0.90	1.00	1.10
A1	0.00	0.05	0.10
A2	0.90	0.95	1.00
b	0.15	0.25	0.35
c	0.08	0.12	0.15
D	2.05	2.10	2.25
E	2.15	2.30	2.45
E1	1.15	1.25	1.35
e	0.650TPY.		
e1	1.2	1.3	1.4
L	0.26	0.36	0.46
L1	0.525REF.		
θ	0°	4°	8°

Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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