

PJSD03LCTS~PJSD05LCTS

SINGLE LINE LOW CAPACITANCE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

VOLTAGE	3~5 Volt	POWER	120 Watt
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SOD-523	Unit : inch(mm)
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FEATURES

- 120 Watts peak pulse power($t_p=8/20\mu s$)
- Small package for use in portable electronics
- Suitable replacement for MLV'S in ESD protection applications
- Low clamping voltage and leakage current
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

APPLICATIONS

- Case: SOD-523 plastic
- Terminals : Solderable per MIL-STD-750,Method 2026
- Approx weight : 0.00005 ounces, 0.0014 grams.

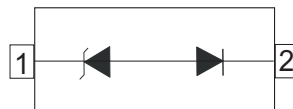
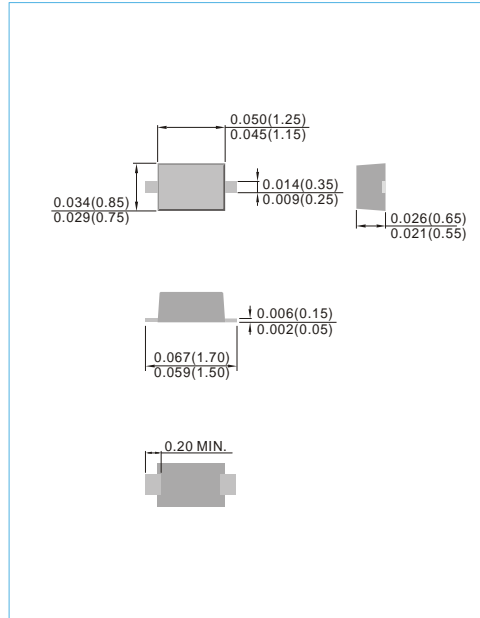


Fig.139

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20 \mu s$)	P_{PP}	120	W
ESD Voltage Per MIL-STD-883	V_{ESD}	25	KV
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

PJSD03LCTS						
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	4	4.9	-	V
Reverse Leakage Current	I_R	$V_R=3.3V$	-	-	100	μA
Clamping Voltage(8/20 μs)	V_C	$I_{PP}=5A$	-	9.5	11	V
Off State Junction Capacitance	C_J	0Vdc Bias=f=1MHz	-	0.5	3	pF

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Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	6	6.7	-	V
Reverse Leakage Current	I_R	$V_R=5V$	-	-	20	μA
Clamping Voltage(8/20 μs)	V_C	$I_{PP}=5A$	-	11	13	V
Off State Junction Capacitance	C_J	0Vdc Bias=f=1MHz	-	0.5	3	pF

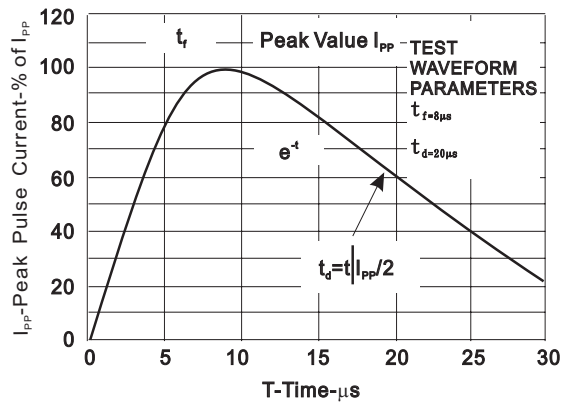


FIG. 1- Pulse Wave Form

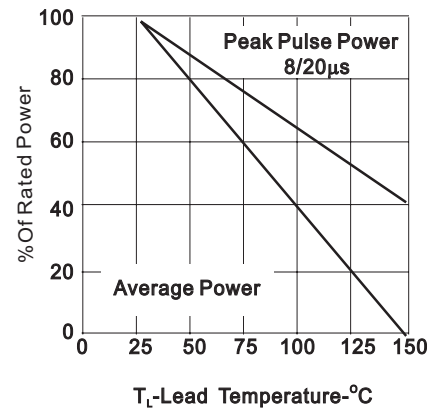


FIG. 2-Power Derating Curve

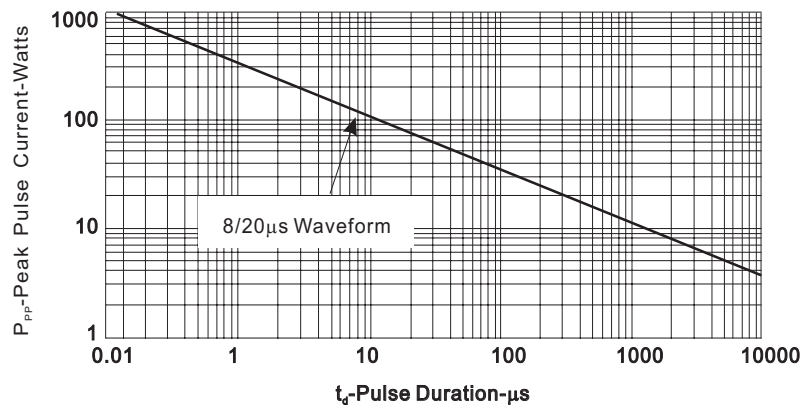


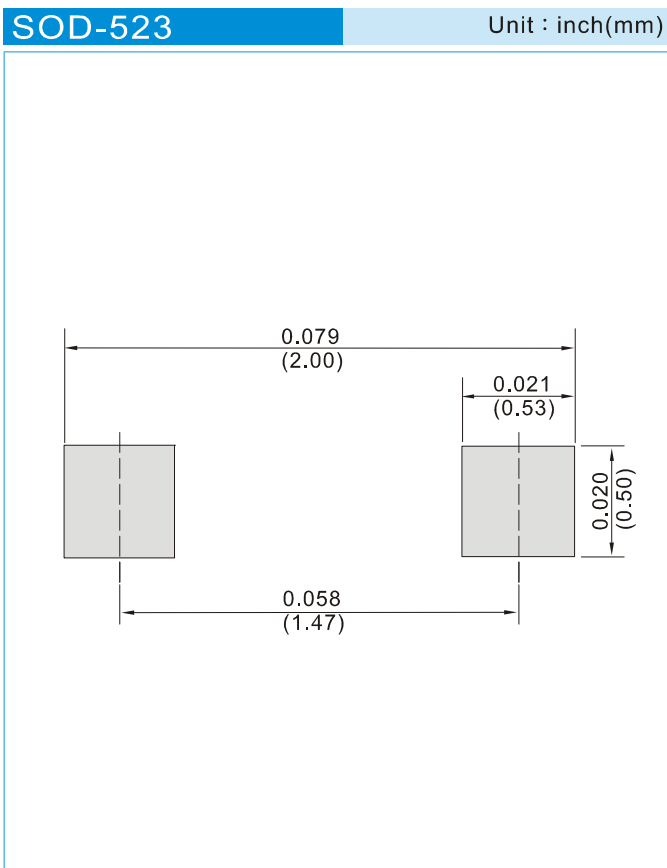
FIG. 3-Peak Pulse Power vs Pulse Time

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PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJSD03LCTS_R1_00001	SOD-523	5K pcs / 7" reel	PL	Halogen free
PJSD03LCTS_R2_00001	SOD-523	12K pcs / 13" reel	PL	Halogen free
PJSD05LCTS_R1_00001	SOD-523	5K pcs / 7" reel	PM	Halogen free
PJSD05LCTS_R2_00001	SOD-523	12K pcs / 13" reel	PM	Halogen free

MOUNTING PAD LAYOUT





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