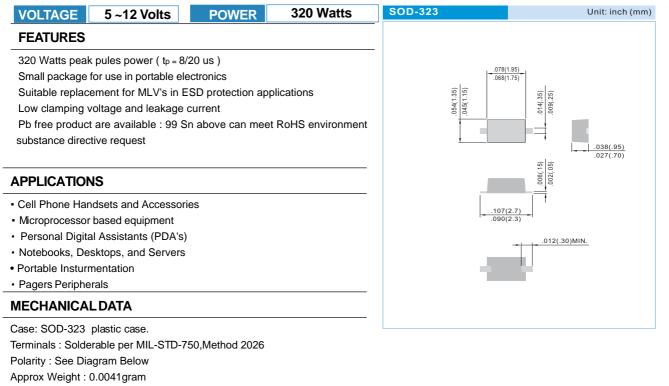




# DATA SHEET

# PJSD05W~PJSD12W

SINGLE LINE TVS DIODE FOR ESD PROTECTION IN PORTABLE ELECTRONICS



Mounting Postion: Any



# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

### ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p = 8/20$ us )	P <sub>PK</sub>	350	W
ESD Voltage	Vesd	30	KV
Lead Soldering Temperature	TL	260 ( 10 sec.)	°C
Operating Temperature	TJ	-50 to +125	°C
Storage Temperature	T <sub>STG</sub>	-50 to +150	°C

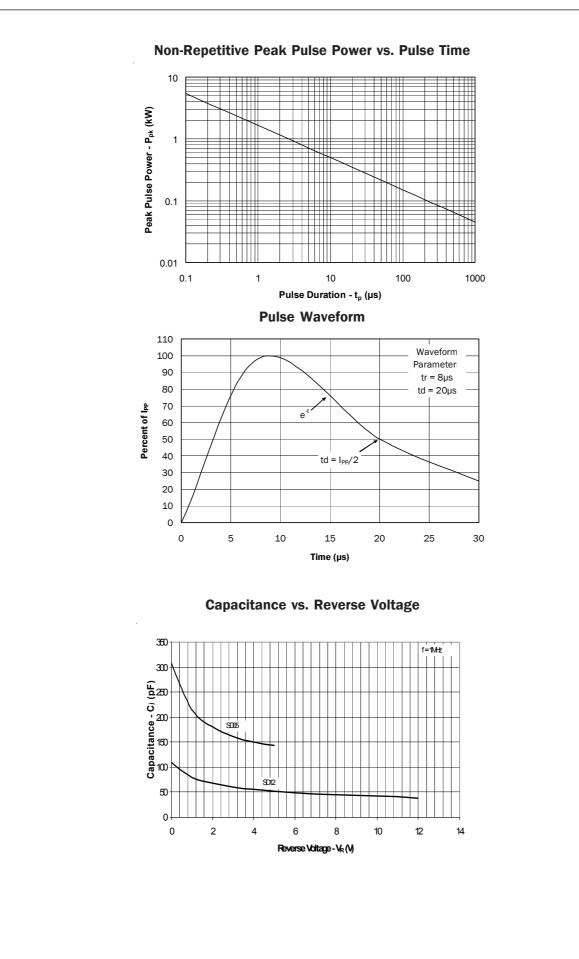
## ELECTRICAL CHARACTERISTICS

PJSD05W						
Parmeter	Symbol	Conditions	Min	Typical	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	$I_T = 1 m A$	6			
Reverse Leakage Current	I <sub>R</sub>	$V_{RWM} = 5V$ T=25 <sup>O</sup> C			10	<sub>μ</sub> A
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> = 5A tp= 8 / 20 μsec			9.8	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> = 24A tp= 8 / 20 μsec			14.5	V
Peak Pulse Curent	I <sub>PP</sub>	tp= 8 / 20 µsec			24	А
Junction Capacitance	CJ	VR = 0V, f = 1MHz			350	۶F

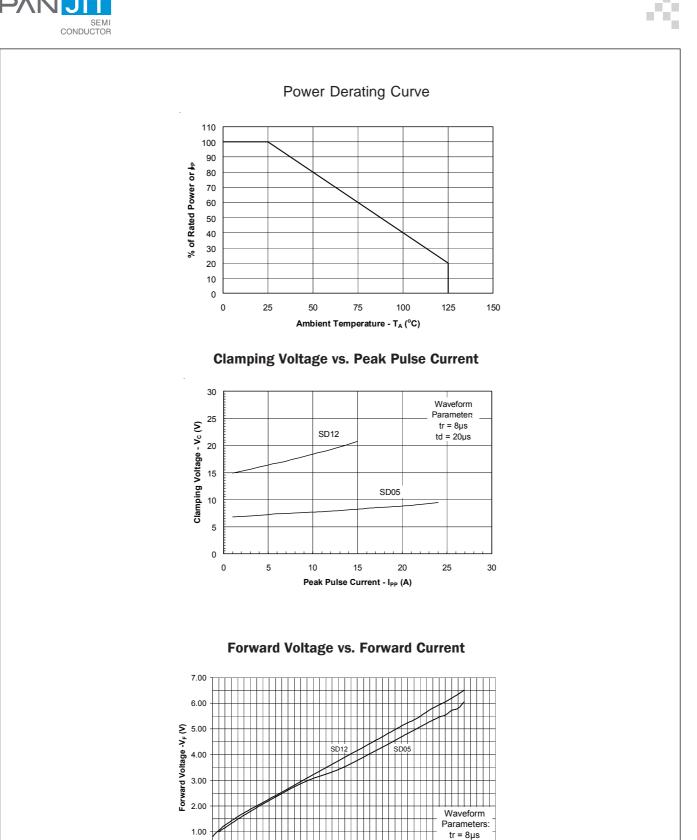
#### ELECTRICAL CHARACTERISTICS

PJSD12W						
Parmeter	Symbol	Conditions	Min	Typical	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				12	V
Reverse Breakdown Voltage	V <sub>BR</sub>	$I_T = 1 m A$	13.3			
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> = 12V T=25 <sup>0</sup> C			1	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> = 5A tp= 8 / 20 μsec			19	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> = 15A tp= 8 / 20 μsec			25	V
Peak Pulse Curent	I <sub>PP</sub>	tp= 8 / 20 µsec			15	А
Junction Capacitance	CJ	VR = 0V, f = 1MHz			150	₽F







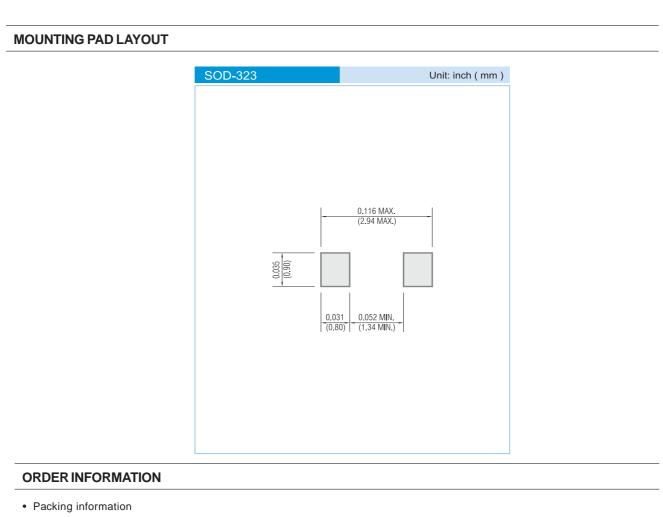


 $td = 10\mu s$ . . . . . . . .

0.00

Forward Current - I<sub>F</sub> (A)





T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

## LEGAL STATEMENT

#### **IMPORTANT NOTICE**

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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