

# PJSD03W-AU SERIES

## SINGLE LINE TVSDIODE FOR ESD PROTECTION PORT ABLE ELECTRONICS

**VOLTAGE**

**3~36 Volt**

**POWER**

**350 Watt**

**SOD-323**

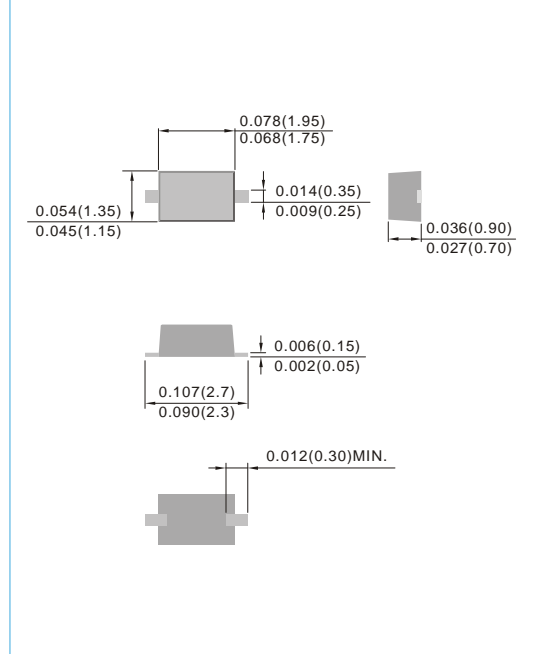
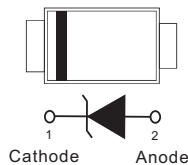
Unit : inch(mm)

### FEATURES

- 350 Watts peak pules power (tp=8/20μs)
- Small package for use in portable electronics
- Suitable replacement for MLV'S in ESD protection applications
- Low clamping voltage and leakage current
- IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### APPLICATIONS

- Case : SOD-323 plastic
- Terminals : Solderable per MIL-STD-750,Method 2026
- Polarity : Color band cathode
- Apporx. Weight : 0.0001 ounce, 0.0041 gram



### MAXIMUM RATINGS AND ELECTRICAL CHATACTERISTICS

#### ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Units
Peak Pulse Power (tp=8/20 μs)	P <sub>PK</sub>	350	W
ESD Voltage	V <sub>ESD</sub>	25	KV
Operating Temperature	T <sub>J</sub>	-50 to 150	°C
Storage Temperature	T <sub>STG</sub>	-50 to 150	°C

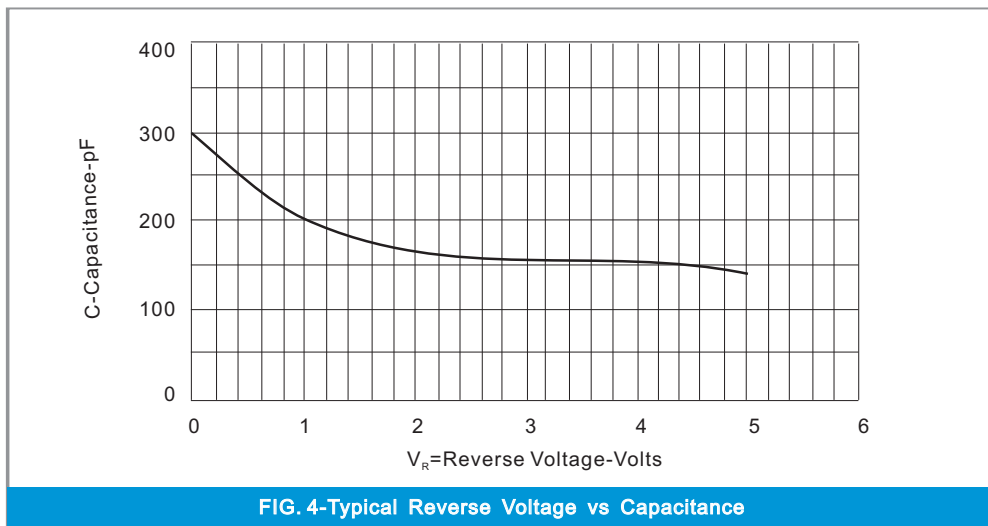
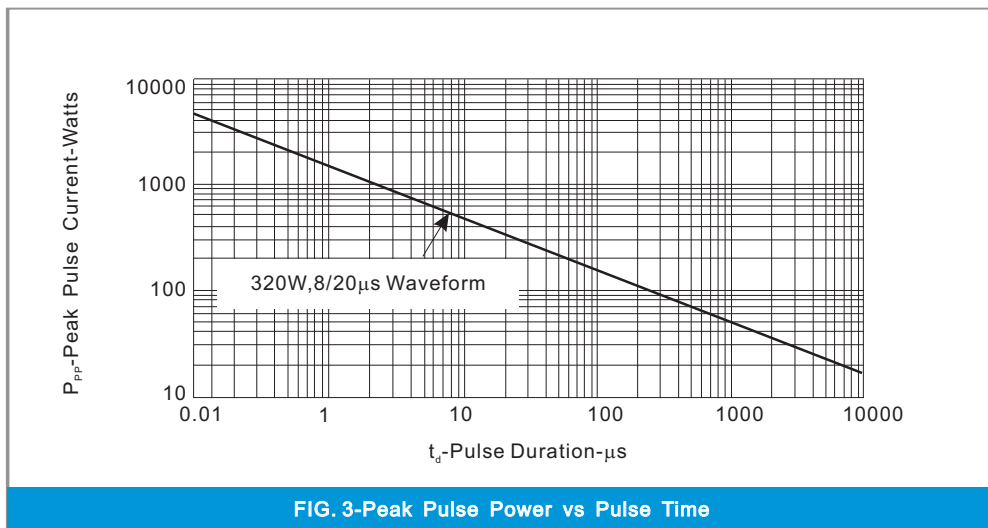
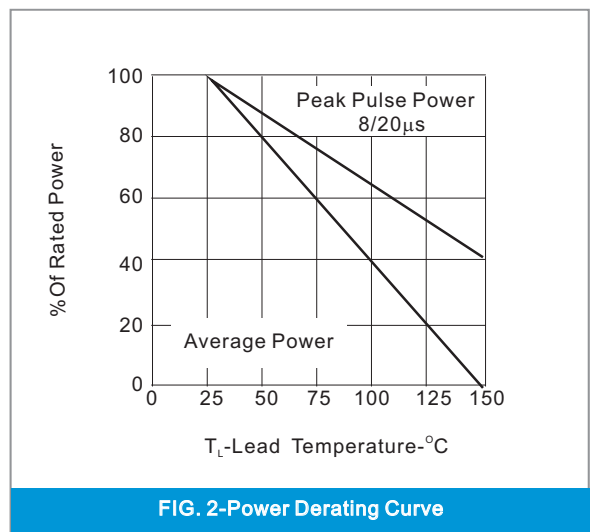
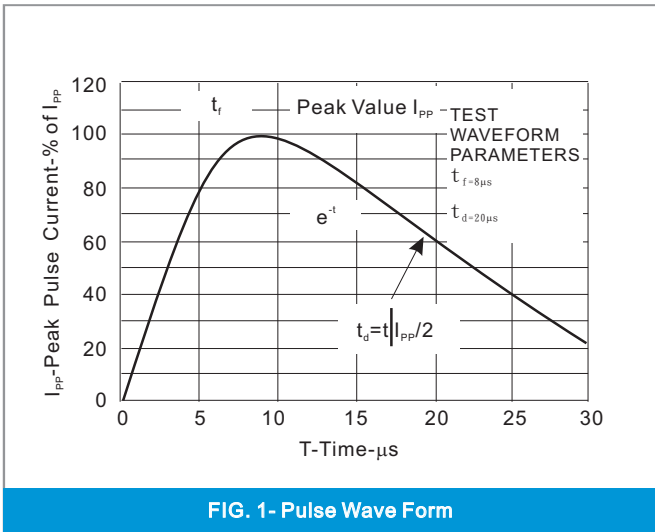
# PJSD03W-AU SERIES

PJSD03W-AU Marking 03W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	3.0	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	4	-	5.0	V
Reverse Leakage Current	$I_R$	$V_R=3.0V$	-	-	125	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	6.5	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	450	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	150	-	pF
PJSD05W-AU Marking 05W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	6	-	7.2	V
Reverse Leakage Current	$I_R$	$V_R=5V$	-	-	10	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	9.8	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	300	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	100	-	pF
PJSD08W-AU Marking 08W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	8	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	8.5	-	10	V
Reverse Leakage Current	$I_R$	$V_R=8V$	-	-	10	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	13.4	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	150	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	80	-	pF
PJSD12W-AU Marking 12W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	12	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	13.3	-	15	V
Reverse Leakage Current	$I_R$	$V_R=12V$	-	-	1	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	19	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	130	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	50	-	pF

## PJSD03W-AU SERIES

PJSD15W-AU Marking 15W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	15	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	16.7	-	20	V
Reverse Leakage Current	$I_R$	$V_R=15V$	-	-	1	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	24	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	120	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	30	-	pF
PJSD24W-AU Marking 24W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	24	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	26.6	-	30	V
Reverse Leakage Current	$I_R$	$V_R=24V$	-	-	1	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	43	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	80	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	10	-	pF
PJSD36W-AU Marking 36W						
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	36	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	39.9	-	45	V
Reverse Leakage Current	$I_R$	$V_R=36V$	-	-	1	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	60	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	30	-	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	1	-	pF

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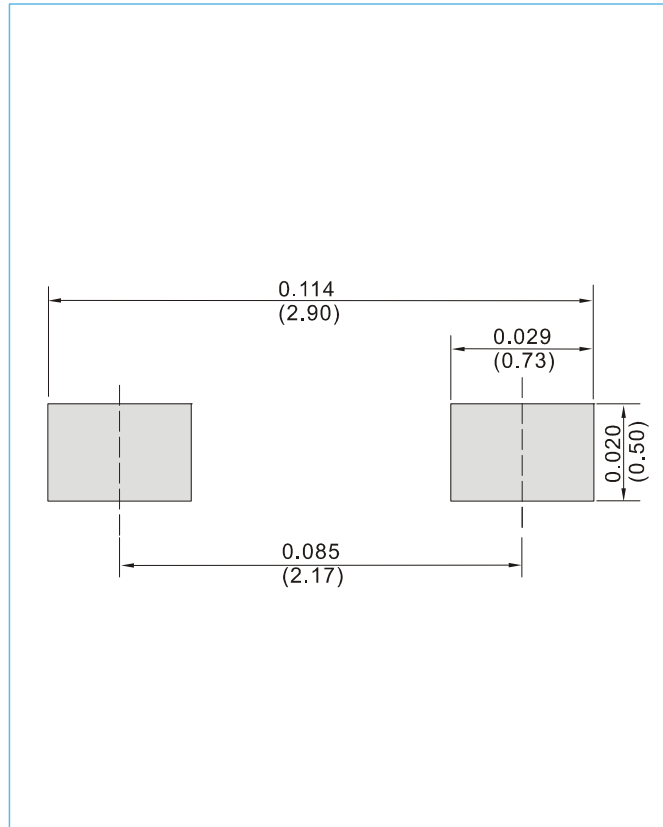


# PJSD03W-AU SERIES

## MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

## PJSD03W-AU SERIES

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