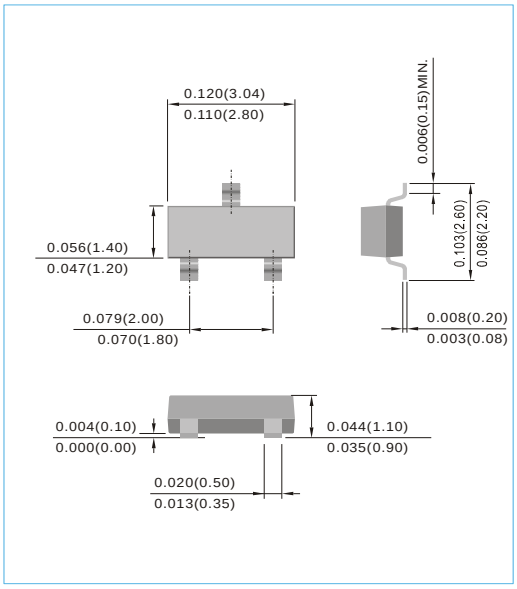
PJEC24MTA-AU

LOW CAPACITANCE DOUBLE BIDIRECTIONAL ESD PROTECTION DIODES

VOLTAGE	24 Volt	IPP	4 Ampere

SOT-23 Unit : inch(mm)



FEATURES

- ESD protection of two lines
- 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)

MECHANICAL DATA

- Case : SOT-23, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0003 ounces, 0.0084 grams
- Marking : 12A

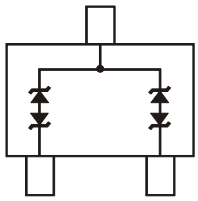


Fig.84(TOP VIEW)

MAXIMUM RATINGS AND ELECTRICAL CHATACTERISTICS

Rating	Symbol	Value	Units
Peak Pulse Current on 8/20μs waveform (Notes 1,2,3)	I_{PPM}	4	Amps
ESD Voltage Air Mode	V_{ESD}	20	KV
ESD Voltage Contact Mode	V_{ESD}	20	KV
Operating Temperature And Storage Temperature	T_J,T_{STG}	-55 to +150	°C

ELECTRICAL CHATACTERISTICS

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage (Notes 4)	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	I_{BR}=5mA	25.4	-	30.3	V
Reverse Leakage Current	I_R	V_R=24V	-	-	50	nA
Clamping Voltage (8/20μs)	V_C	I_{PP}=4A	-	-	50	V
Off State Junction Capacitance	C_J	V_R=0V, f=1MHz	-	11	-	pF

NOTES :

1. Non-repetitive current pulse.
2. Mounted on copper pads to each terminal.
3. Peak pulse power waveform is 8/20μs.
4. A transient suppressor is selected according to the working peak reverse voltage (V_{RWM}), which should be equal to or greater than the DC or continuous peak operating voltage level.

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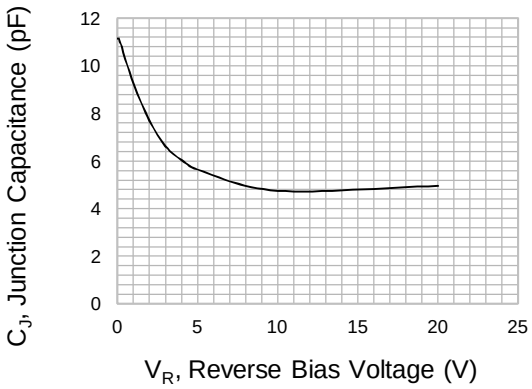

Fig.1 Typical Junction Capacitance

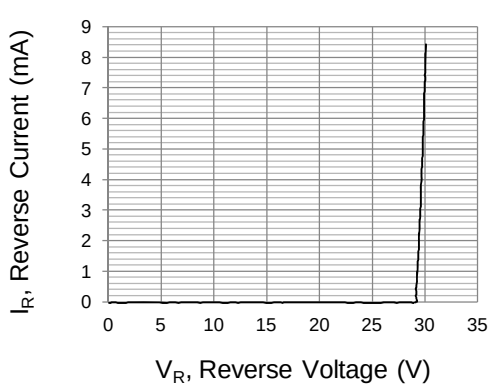

Fig.2 Typical Reverse Characteristics

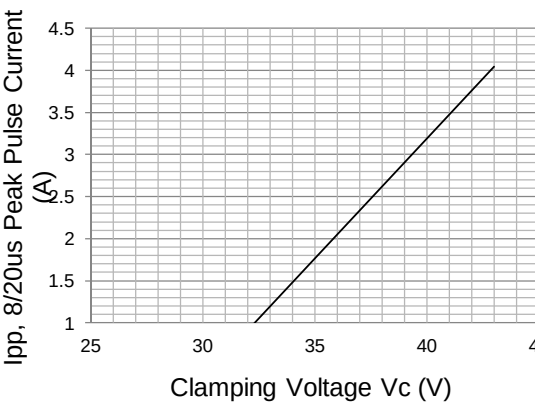

Fig.3 Typical Peak Clamping Voltage

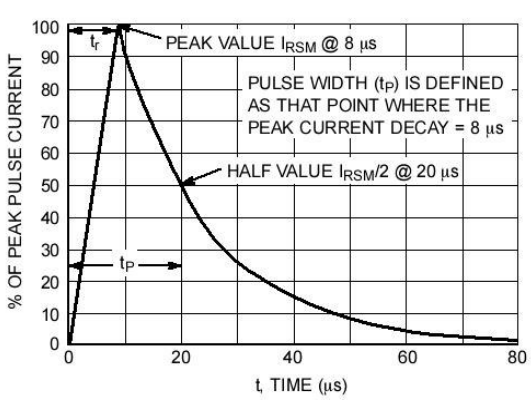

Fig.4 8/20µS Peak Pulse Current Waveform

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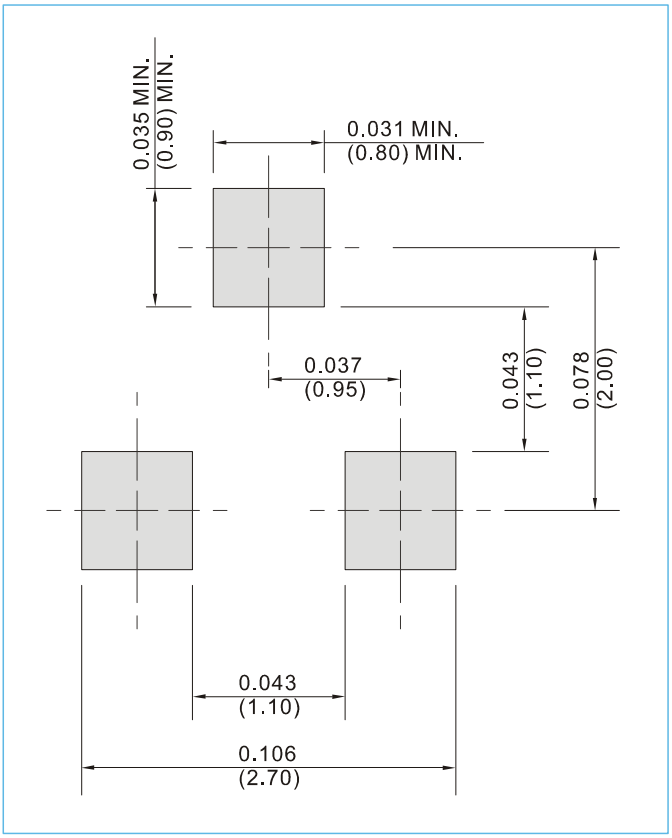
MOUNTING PAD LAYOUT

SOT-23 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

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