ESD Diode	Peak Pulse Power - 80 Watts

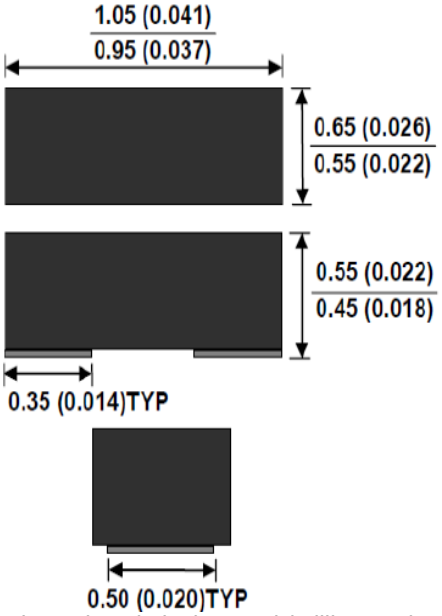
Features

- Meet IEC61000-4-2 (ESD)±15kV (air),±9kV (contact)
- Protects one bi-directional I/O line
- Working Voltage : 5V, typical capacitance : 0.19pF
- Pb free version, RoHs compliant, and Halogen free

Mechanical Data

- Case: DFN1006(0402) mold package
- Terminal: Sn/Au plated, solderable per MIL-STD-750, method 2026
- Mounting position: Any
- High temperature soldering guaranteed: 260℃ /10sec.
- Weight: 0.001 gram(approx.).
- MSL：Level 1
- Marking Code: R

DFN1006(0402)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

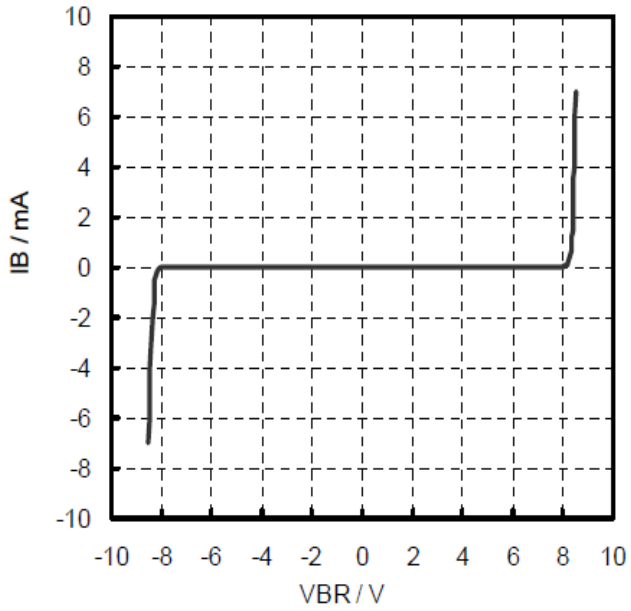
Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

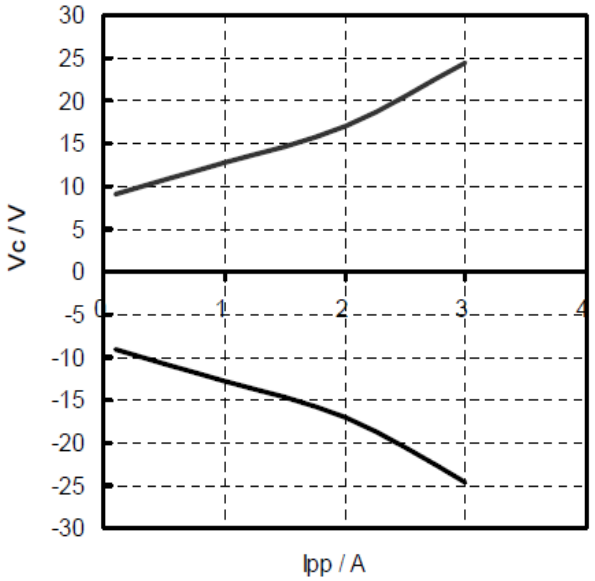
Characteristics	Symbol	Min	Typ	Max	Unit
Peak Pulse Power， tp = 8 / 20 us	P_{PK}			80	W
Maximum Peak Pulse Current ， tp = 8 / 20 us	Ipp			3	A
Operating Junction Temperature	T_j	-55		125	℃
Storage Temperature	Tstg	-55		150	℃
Reverse Stand-Off Voltage	V_{RWM}			5	V
Reverse Breakdown Voltage,It = 1mA	V_{BR}	6.0	8.3	9.5	V
Reverse Leakage Current,VRWM = 5V	I_R		10	50	uA
Clamping Voltage,Ipp = 1A，tp = 8/20 us	V_c			15	V
Clamping Voltage,Ipp = 3A，tp = 8/20 us				26	V
Junction Capacitance,Between I/O Pin and GND VR=0V，f=1MHz	C_j		0.19	0.25	pF

0.19

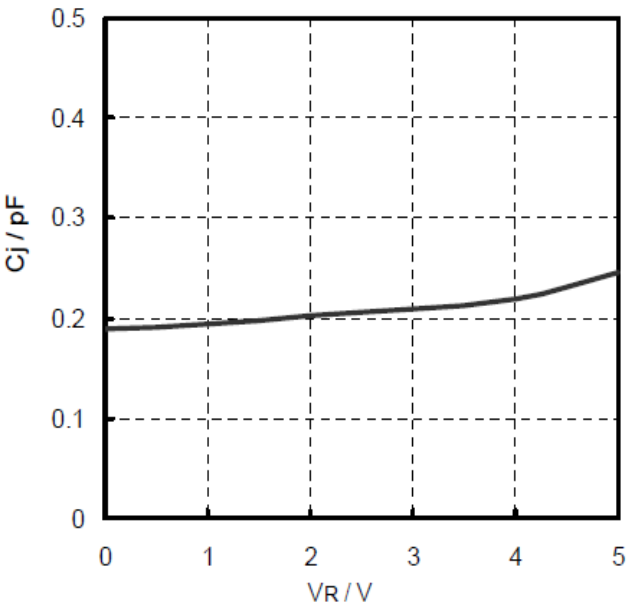
VBR - IB （25℃）



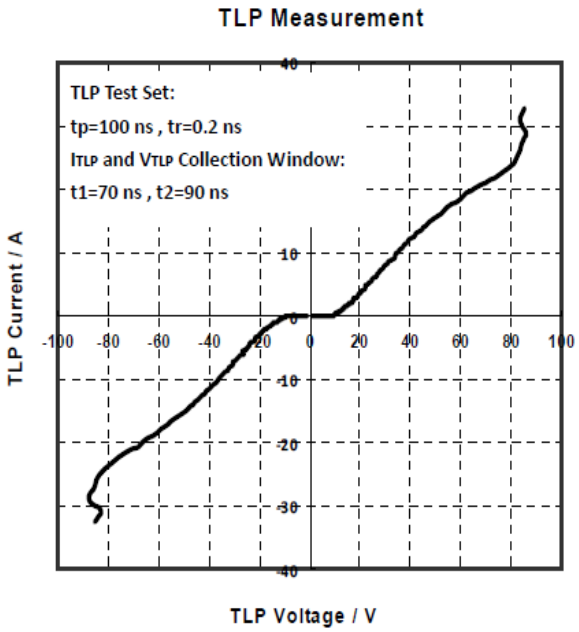
Vc - Ipp （25℃）



Cj - VR （25℃）



TLP Measurement



The curve above is for reference only.

HEDX25V0BX-7-99-01-CC0015
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