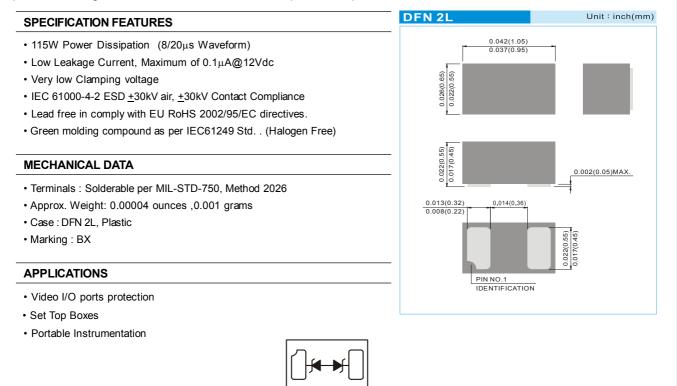


### **BI-DIRECTIONAL ESD PROTECTION DIODE**

This bi-directional TVS has been designed to protect sensitive equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 12Vdc and below. This offers an integrated solution to protect a single data line where the board space is a premium.



#### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNITS	
Peak Pulse Power (8/20 µs Waveform)	Ррр	115	W	
Peak Pulse Current (8/20 μs Waveform)	Іррм	5	A	
ESD Voltage per IEC61000-4-2 (Contact)	Vesd	<u>+</u> 30	kV	
ESD Voltage per IEC61000-4-2 (Air)	Vesd	<u>+</u> 30	kV	
ESD Voltage (HBM)	Vesd	<u>+</u> 8	kV	
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to +150	٥C	

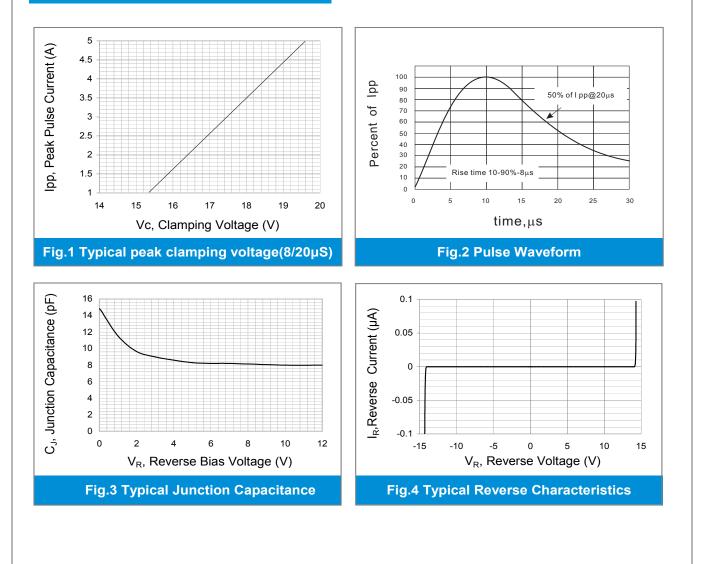
Fig. 156(TOP VIEW)



#### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

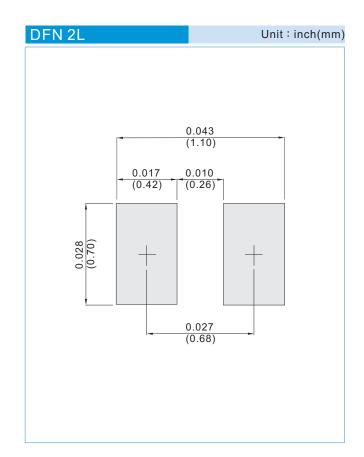
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	VRWM		-	-	12	V
Reverse Breakdown Voltage	Vbr	I BR=1mA	13	-	-	V
Reverse Leakage Current	IR	VR=12V	-	-	0.1	μΑ
Clamping Voltage (8/20µs)	Vc	Ipp=1A Ipp=5A	-	-	20 23	V
Off State Junction Capacitance	CJ	0 Vdc Bias f=1MHz	-	15	-	pF

### **TYPICAL CHARACTERISTIC CURVES**





#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 8K per 7" plastic Reel





Part No\_packing code\_Version ÚRÙÖFGŠÔØÞG\_R1\_00001

### For example :

### RB500V-40\_R2\_00001

L



- Serial number

Version code means HF

Packing size code means 13"

- Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
T/B	Α	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	т	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			





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