

Features

- Ultra Low Capacitance
- Ultra Low Leakage
- Low Clamping Voltage
- Fast Response Time
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking	
ESDSLC12VLB	R12	

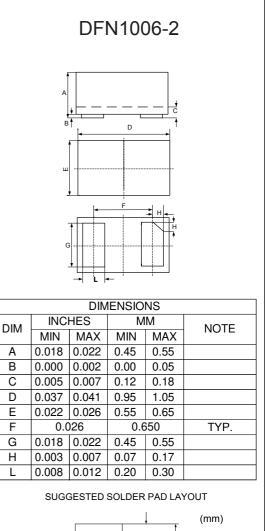
IEC61000-4-2(ESD)	Air Contact	±25KV ±20KV
Peak Pulse Current(8/20µs)	I _{PP}	2.5A
Peak Pulse Power (8/20µs)	Р _{РК}	80W

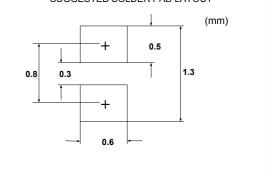
Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure









Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	13.5			V
Reverse Leakage Current	I _R	$V_{RWM} = 12V$			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			22	V
Clamping Voltage	V _C	I _{PP} =2.5A, t _P =8/20μs			32	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		0.25	0.5	pF



Curve Characteristics

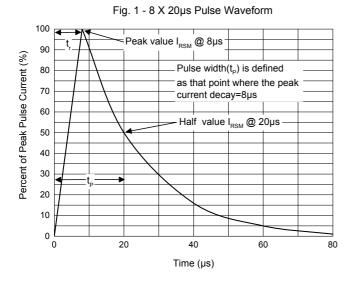
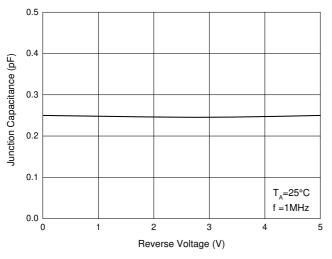
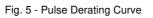


Fig. 3 - Capacitance Characteristics





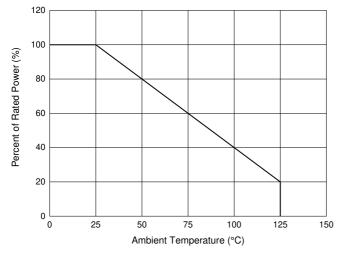


Fig. 2 - Non-Repetitive Peak Pulse Power

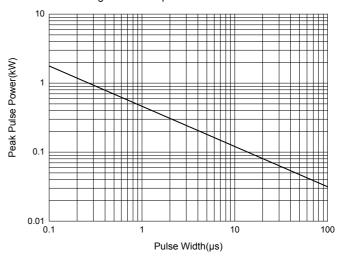
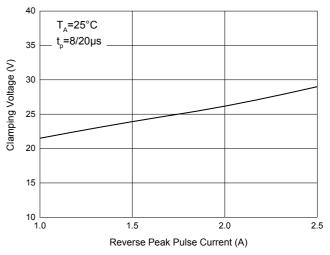


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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