

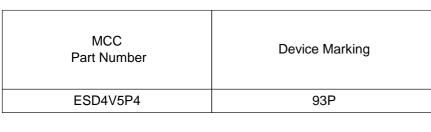
## Features

- Low Operating Voltage
- Ultra Low Clamping Voltage
- 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

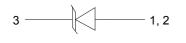
ESD
Protection
Device



IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		80A
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	280A
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	5000W

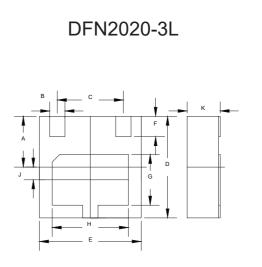
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### **Circuit and Pin Schematic**





Transparent Top View



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
А	0.037	0.041	0.950	1.050		
В	0.010	0.014	0.250	0.350		
С	0.051		1 1.30		TYP.	
D	0.075	0.083	1.900	2.100		
Е	0.075	0.083	1.900	2.100		
F	0.014	0.018	0.350	0.450		
G	0.035	0.043	0.900	1.100		
Н	0.055	0.063	1.400	1.600		
J	0.008	0.012	0.200	0.300		
Κ	-	0.026	-	0.650		



## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				4.5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> = 1mA	4.8			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =4.5V			2	μA
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =50A, t <sub>P</sub> =8/20μs			10	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =280A, t <sub>P</sub> =8/20μs			18	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		680		pF



# **Curve Characteristics**

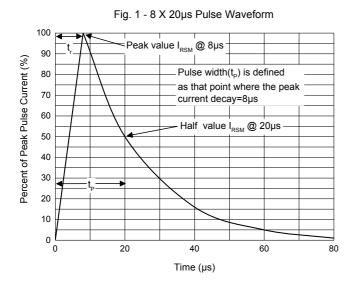
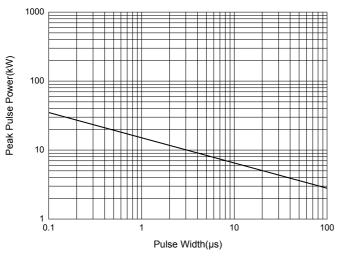
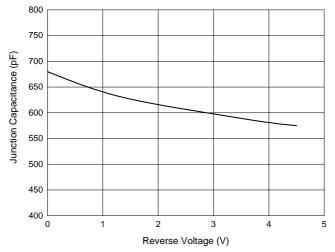


Fig. 3 - Non-Repetitive Peak Pulse Power







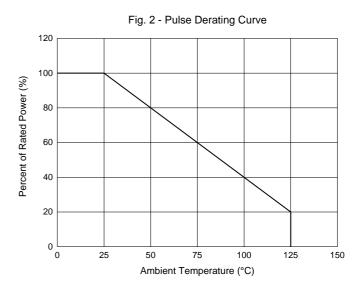
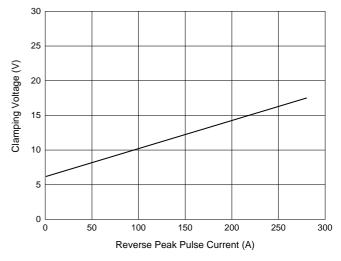


Fig. 4 - Clamping Voltage Characteristics





## **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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