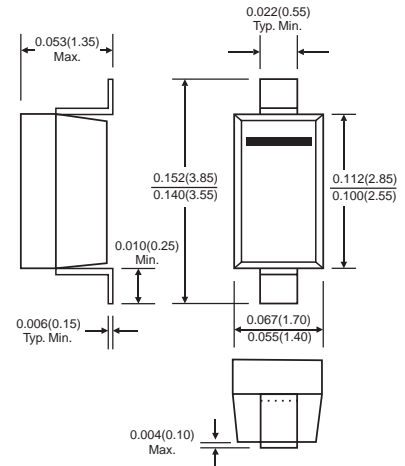




## SOD-123

### FEATURES

- ◇ Suitable replacement for MLV'S
- ◇ ESD protection
- ◇ Low leakage current
- ◇ Low clamping voltage



### APPLICATIONS

- ◇ Single line TVS diode
- ◇ Computers and peripherals
- ◇ Communication systems
- ◇ Audio and video equipment

Dimensions in inches and (millimeters)

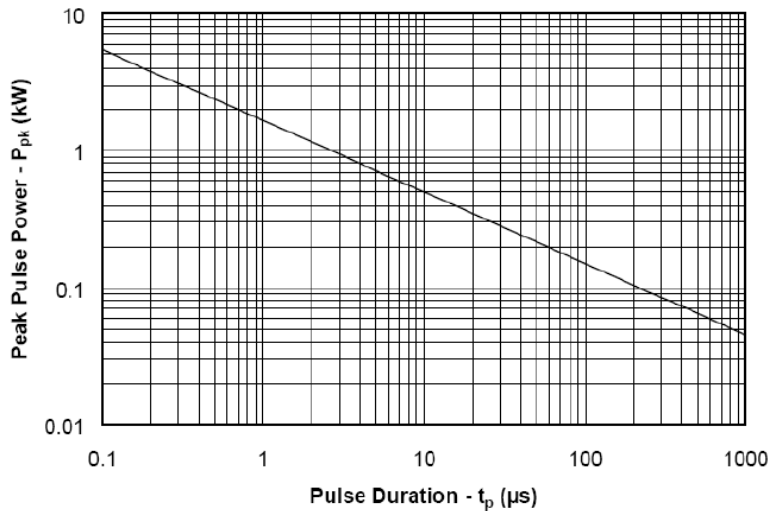
**MAXIMUM RATING** @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Reverse standoff voltage	$V_{RWM}$	5	V
Peak pulse power dissipation( $t_p=8/20\mu s$ )	$P_{PP}$	260	W
Peak pulse current( $t_p=8/20\mu s$ )	$I_{PP}$	15	A
ESD (electrostatic discharge capability)	$V_{PP}$	30	kV
Junction temperature	$T_j$	150	°C
Storage and operating temperature	$T_{STG} T_{amb}$	-55 to+150	°C

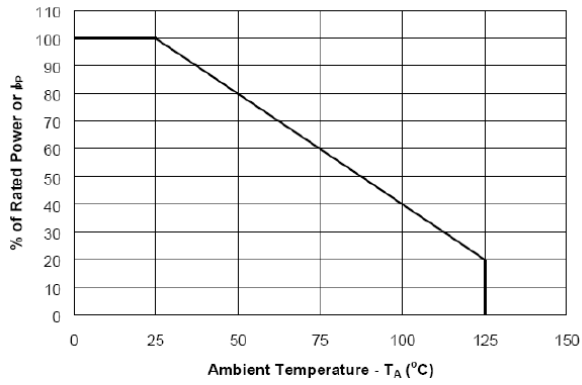
**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse breakdown voltage	$V_{BR}$	$I_R=5mA$	6.4	6.8	7.2	V
Reverse leakage current	$I_R$	$V_{RWM}=5V$			1	$\mu A$
Diode capacitance	$C_d$	$V_R=0V, f=1MHz$			430	pF
Clamping voltage	$V_{(CL)}$	$I_{PP}=1A$			9	V
		$I_{PP}=15A$			20	
Differential resistance	$R_{diff}$	$I_R=1mA$			400	$\Omega$
		$I_R=1mA$			80	
		$I_R=1mA$			200	
		$I_R=1mA$			225	
		$I_R=0.5mA$			300	

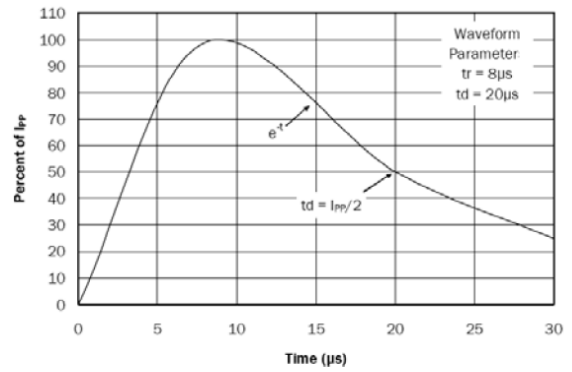
**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**



**Fig.1 Non-Repetitive Peak Pulse Power vs. Pulse Time**



**Fig.2 Power Derating Curve**



**Fig.3 Waveform**