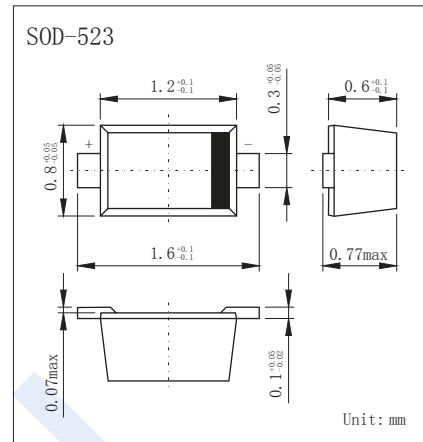


TVS Diodes

ESD5Z5.0C

■ Features

- Peak Power up to 240 Watts @ 8 x 20u s Pulse
- Low leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
ESD Per IEC61000-4-2 (Air)		± 15	KV
ESD Per IEC61000-4-2 (Contact)		± 8	
ESD Voltage- Per Human Body Model		ESD	
IEC61000-4-4 (EFT)		40	A
Peak Pulse Power (tp = 8/20us)	PPP	200	mW
Junction Temperature	T _J	155	°C
Maximum Lead Temperature for Soldering During 10s	T _L	260	
Operating Temperature Range	T _{OP}	-40 to 125	
Storage Temperature range	T _{stg}	-55 to 155	

■ Electrical Characteristics Ta = 25°C

Device	V _{RWM} (V)	I _R (uA) @ V _{RWM}	V _{BR} (V) @ I _T (Note 1)	I _T	V _C (V) @ I _{PP} =5 A*	V _C (V) @ Max I _{PP} *	I _{PP} (A)*	P _{PK} (W)*	C (pF)
	Max	Max	Min	mA	Typ	Max	Max	Max	Typ
ESD5Z5.0C	5.0	1	5.6	1.0	11.6	18.6	9.4	174	25

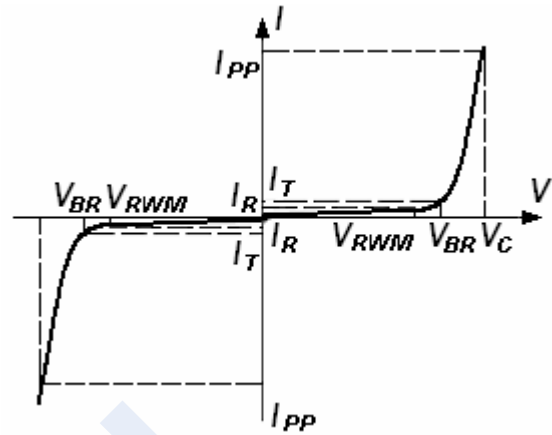
*Surge current waveform per Figure 1.

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

TVS Diodes ESD5Z5.0C

■ Electrical Parameter

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T



■ Typical Characteristics

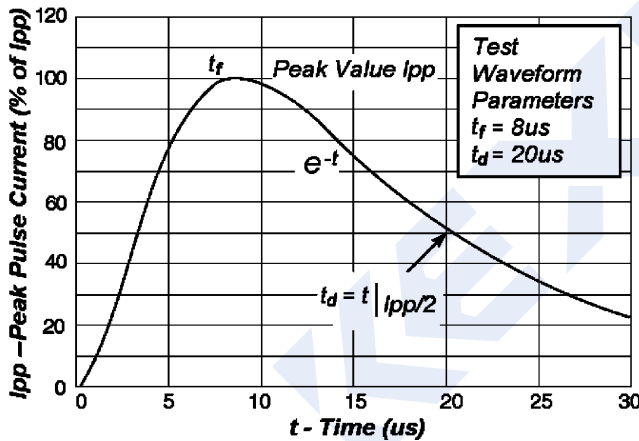


Fig1. Pulse Waveform

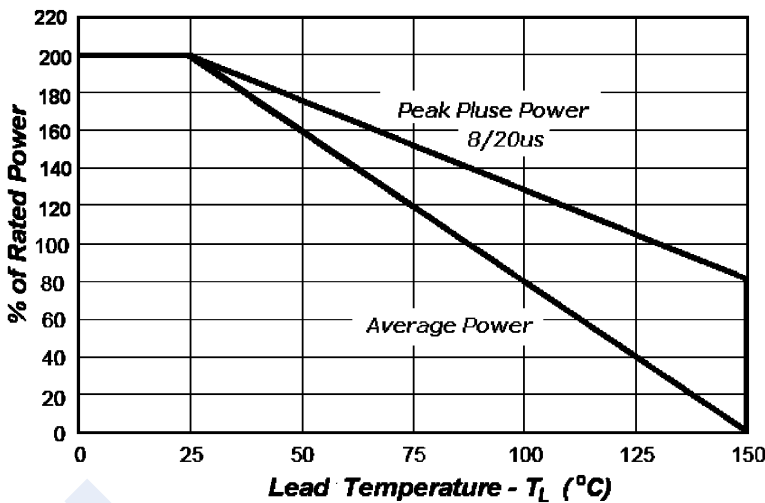


Fig2. Power Derating