



SE24Q5BDD3GH

ESD Protection Diode

FEATURES

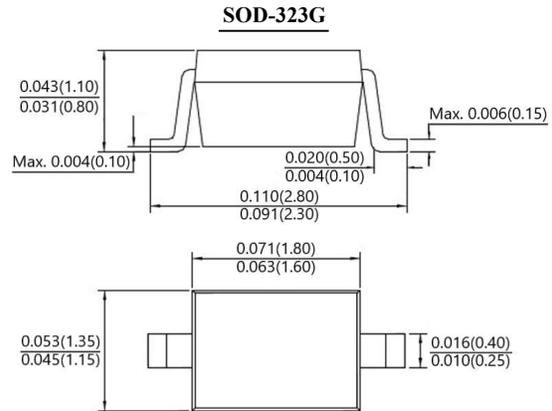
- 350W Peak Pulse Power per Line ($t_p=8/20\mu s$)
- IEC61000-4-2(ESD) 30kV(Air), 30kV(Contact)
- Protect One Power or I/O Port
- Bi-directional Configurations
- Suffix " H " indicated Halogen-free part, ex.SE24Q5BDD3GH

APPLICATIONS

- Audio and video equipment
- Communication system
- Cellular handsets and accessories

MECHANICAL DATA

Case : SOD-323G



Dimensions in inches and (millimeters)

PIN CONFIGURATION



Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	350	W
ESD per IEC 61000-4-2 (Air)	V_{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	8	A
Operating Junction Temperature	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C



SE24Q5BDD3GH

ESD Protection Diode

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified)

Parameter	Test Condition	Symbol	Min	Typ.	Max	Units
Reverse Stand-Off Voltage	-	V_{RWM}	-	-	24.0	V
Reverse Breakdown Voltage	$I_R = 1\text{mA}$	$V_{(BR)}$	26.7	-	-	V
Reverse Leakage Current	$V_{RWM} = 24\text{V}$	I_R	-	-	1	μA
Clamping Voltage	$I_{PP} = 5\text{A}, t_p = 8/20\mu\text{s}$	V_C	-	-	42	V
	$I_{PP} = 8\text{A}, t_p = 8/20\mu\text{s}$				48	
Capacitance	$f = 1\text{MHz}$	C_J	-	-	50	pF

RATINGS AND CHARACTERISTIC CURVES

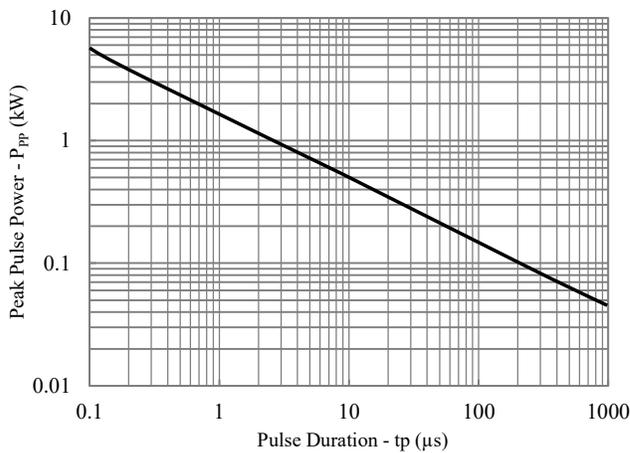


Fig.1-Non-Repetitive Peak Pulse Power vs. Pulse Time

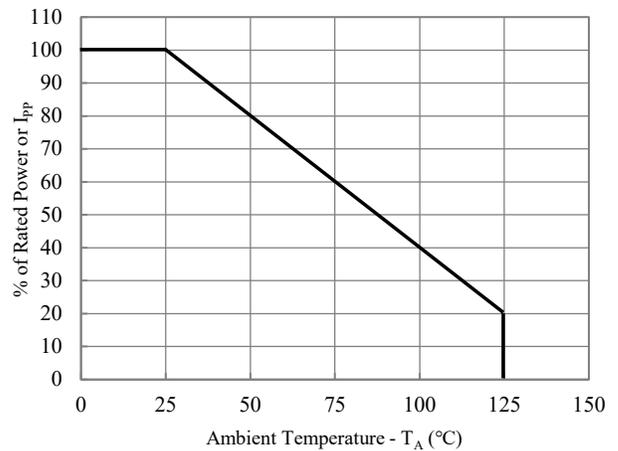


Fig.2-Power Derating Curve

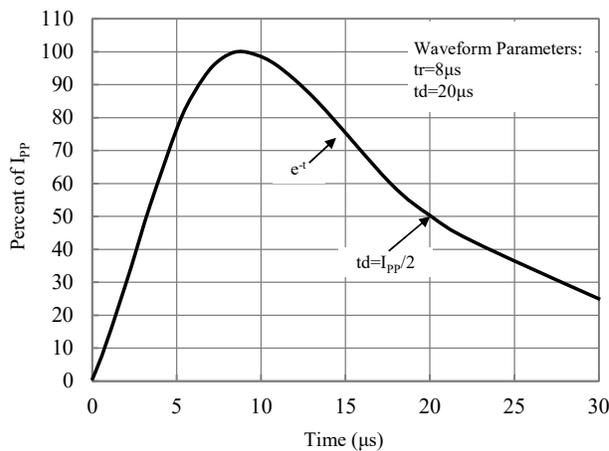


Fig.3-Pulse Waveform