PG12FBUSC

Single Line TVS Diode for ESD Protection in Portable Electronics

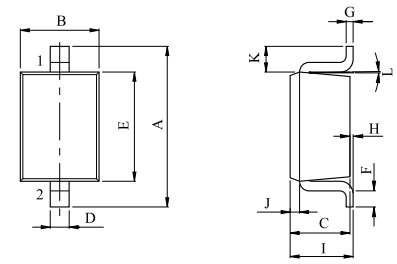
Protection in Portable Electronics Applications.

FEATURES

☐350 Watts peak pulse power (tp=8/20μs)
☐Transient protection for data lines to
IEC 61000-4-4(EFT) 40A(tp=5/50ns)
IEC 61000-4-5(Lightning) 15A(tp=8/20μs)
☐Bidirectional Type Pin Configuration Structure.
☐Small package for use in portable electronics.
☐Suitable replacement for Multi-Layer Varistors in ESD protection applications.
☐Protects on I/O or power line.
☐Low clamping voltage.
☐Low leakage current.

APPLICATIONS

☐Cell phone handsets and accessories.
☐Microprocessor based equipment.
☐Personal digital assistants (PDA s)
☐Notebooks, desktops, & servers.
☐Portable instrumentation.
☐Pagers peripherals.



DIM	MILLIMETERS
A	2.50±0.2
B	1.25±0.05
C	0.90±0.05
D	0.30±0.06
E	1.70±0.05
F	0.27±0.10
G	0.126±0.03
H	0~0.1
I	1.0 MAX
J	0.15±0.05
K	0.4
L	2° +4/-2
M	4~6°

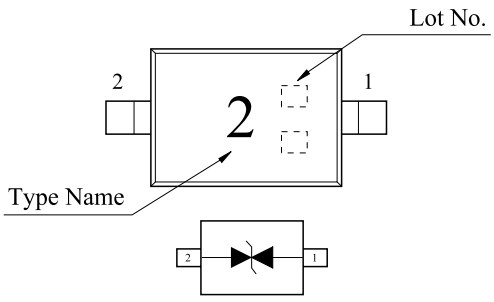
1. ANODE
2. ANODE

USC

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20μs)	P_{PK}	350	W
Peak Pulse Current (tp=8/20μs)	I_{PP}	15	A
Operating Temperature	T_j	-55 ~ 150	℃
Storage Temperature	T_{stg}	-55 ~ 150	℃

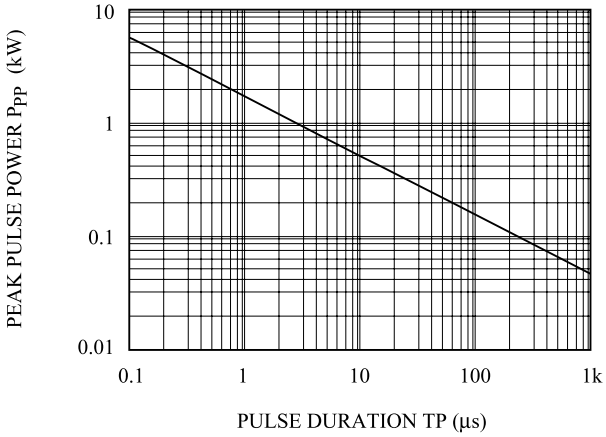
Marking



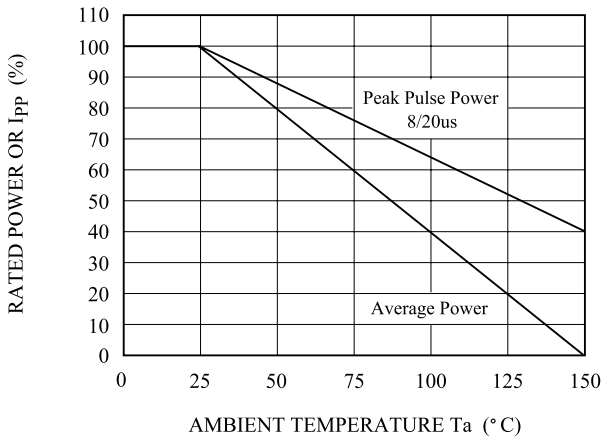
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-		-	-	12	V
Reverse Breakdown Voltage	V_{BR}	I_t=1mA		13.8	-	-	V
Reverse Leakage Current	I_R	V_R=12V		-	-	1	μA
Clamping Voltage	V_C	I_{PP}=15A, tp=8/20μs		-	-	25	V
Junction Capacitance	C_J	V_R=0V, f=1MHz		-	-	100	pF
Electrostatic Discharge	ESD	IEC61000-4-2	Air	20	-	-	KV
			Contact	20	-	-	

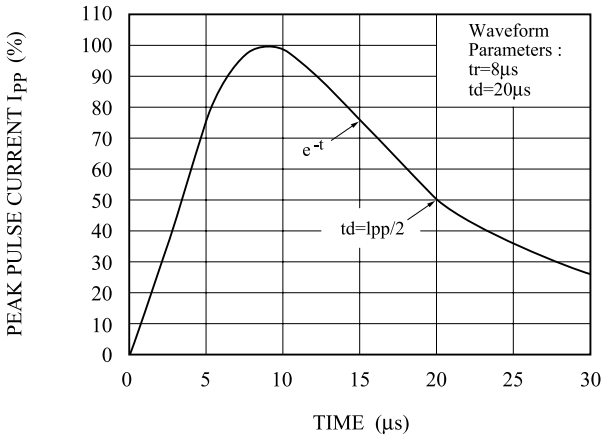
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



C_J - V_R