

Protection in Portable Electronics Applications.

FEATURES

- 350 Watts peak pulse power ($t_p=8/20 \mu s$)
- Transient protection for data lines to
IEC61000-4-4(EFT) 40A($t_p=5/50ns$)
IEC61000-4-5(Lightning) 15A($t_p=8/20 \mu s$)
- 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.
- Suffix U : Qualified to AEC-Q101.
ex) PG12FBUSC-RTK/HU

APPLICATIONS

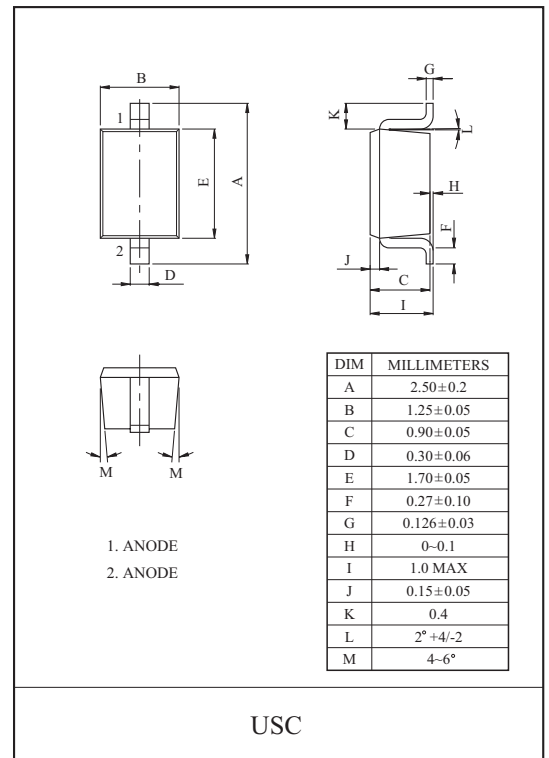
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA s)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.

MAXIMUM RATING ($T_a=25^\circ C$)

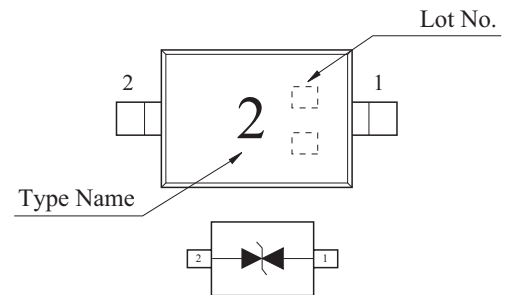
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ($t_p=8/20 \mu s$)	P_{PK}	350	W
Peak Pulse Current ($t_p=8/20 \mu s$)	I_{PP}	15	A
Operating Temperature	T_j	-55 150	$^\circ C$
Storage Temperature	T_{stg}	-55 150	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

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	$I_{PP}=15A, t_p=8/20 \mu s$		-	-	25	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		-	-	100	pF
Electrostatic Discharge	ESD	IEC61000-4-2	Air	20	-	-	KV
			Contact	20	-	-	

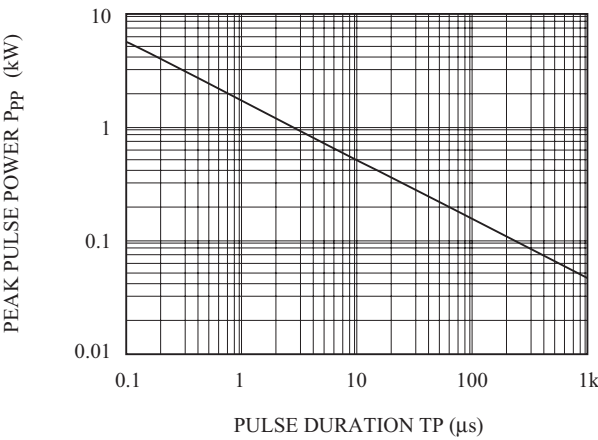


Marking

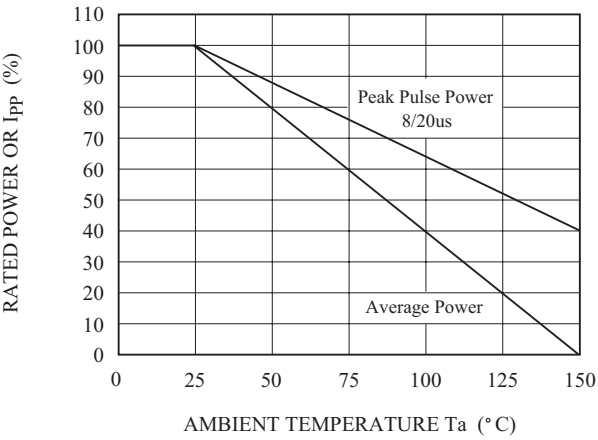


PG12FBUSC

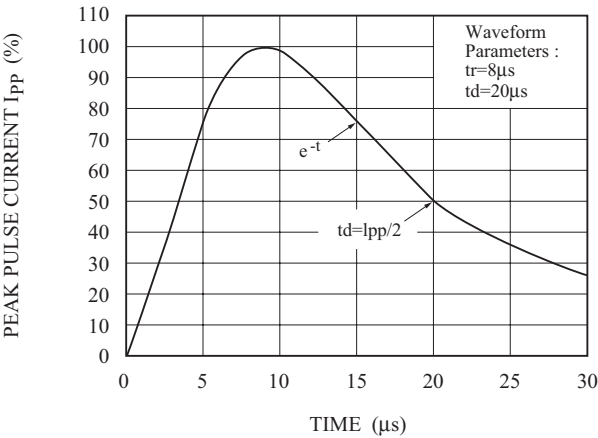
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

