

Protection in Portable Electronics Applications.

FEATURES

- 1,200 Watts peak pulse power ($t_p=8/20 \mu s$)
- Transient protection for data lines to IEC61000-4-5(Lightning) 12A($t_p=8/20 \mu s$)
- Small package for use in portable electronics.
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.
- Suffix U : Qualified to AEC-Q101.
ex) PG48FSUSC-RTK/HU

APPLICATIONS

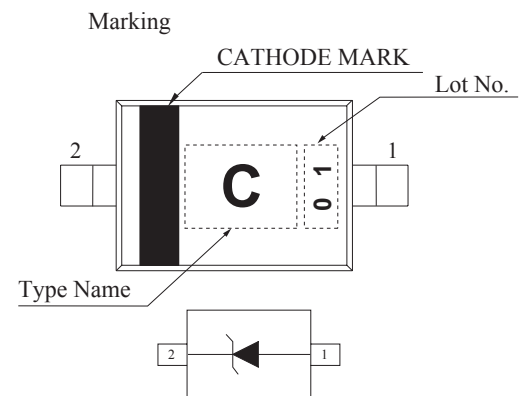
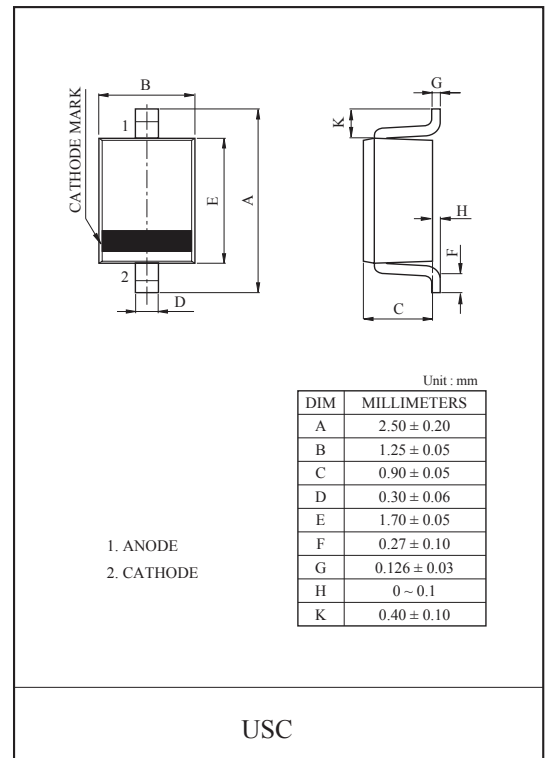
- Microprocessor based equipment.
- Notebooks, desktops, & servers.
- Portable instrumentation.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ($t_p=8/20 \mu s$)	P_{PK}	1,200	W
Peak Pulse Current ($t_p=8/20 \mu s$)	I_{PP}	10	A
Operating Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ C$

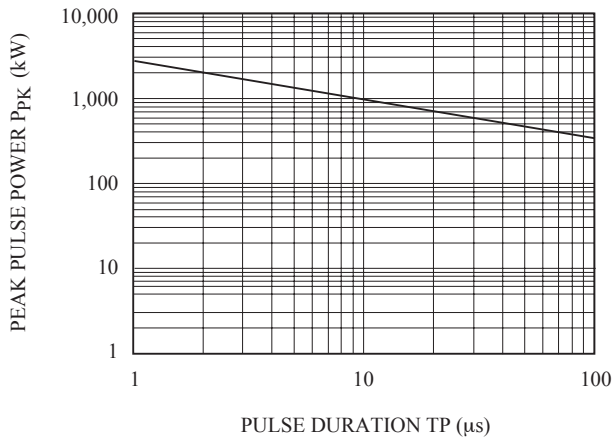
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	48	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	55	58.5	62	V
Reverse Leakage Current	I_R	$V_{RWM}=48V$	-	-	100	nA
Clamping Voltage	V_C	$I_{PP}=5A, t_p=8/20 \mu s$	-	79	85	V
		$I_{PP}=12A, t_p=8/20 \mu s$	-	92	100	
Total Capacitance	C_T	$V_R=0V, f=1MHz$	-	-	100	pF
Electrstatic Discharge	V_{ESD}	IEC61000-4-2	Air	± 30	-	kV
			Contact	± 30	-	

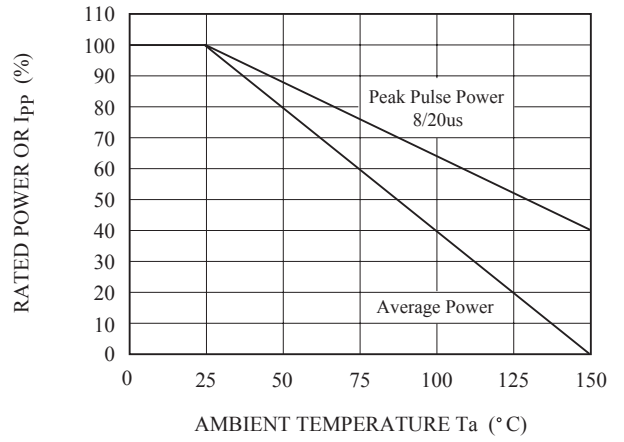


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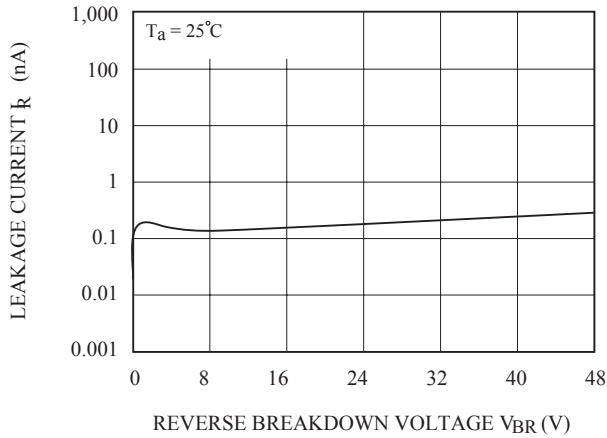
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



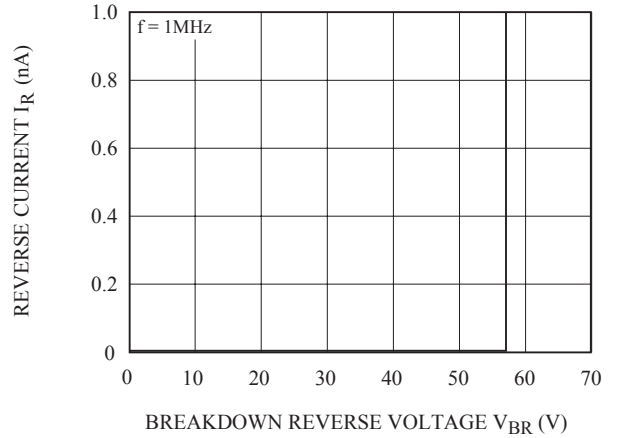
POWER DERATION CURVE



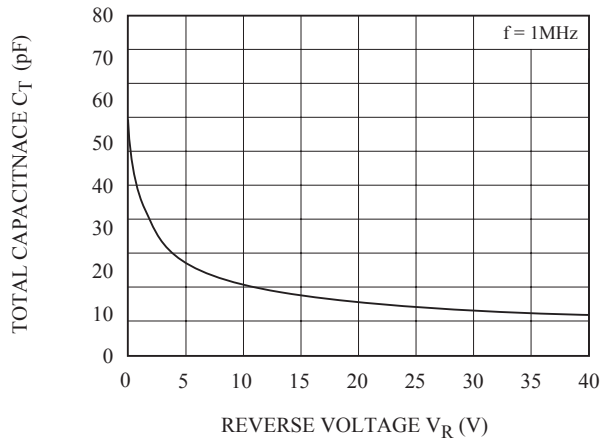
$I_R - V_R$



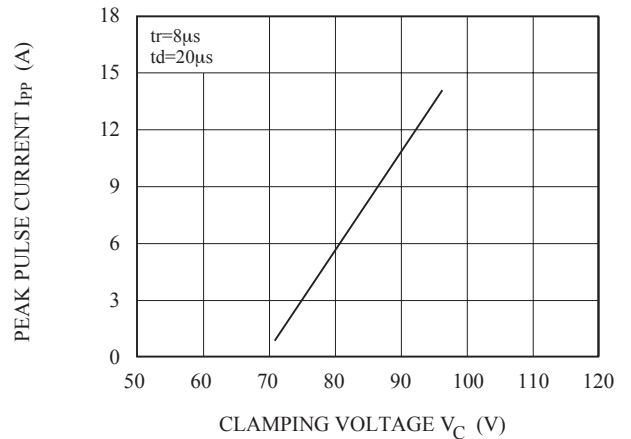
$I_R - V_{BR}$



$C_T - V_R$

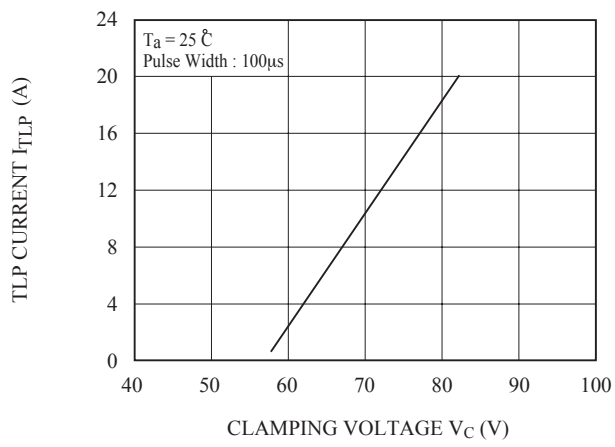


$V_C - I_{PP}$



PG48FSUSC

TLP CURVE



PULSE WAVEFORM

