

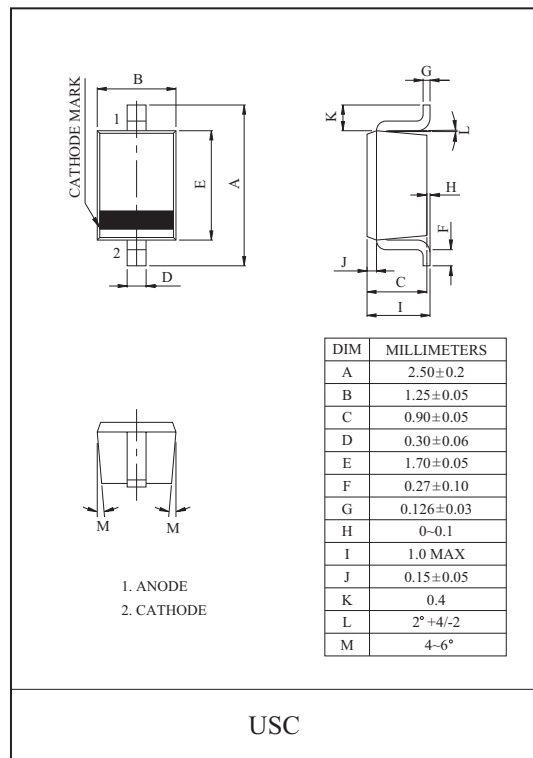
Protection in Portable Electronics Applications.

FEATURES

- 600 Watts peak pulse power ($t_p=8/20 \mu s$)
- Transient protection for data lines to IEC61000-4-5(Lightning) 10A($t_p=8/20 \mu s$)
- Small package for use in portable electronics.
- Protects on I/O or power line.
- Low leakage current.
- Suffix U : Qualified to AEC-Q101.
ex) PG36FSUSC-RTK/HU

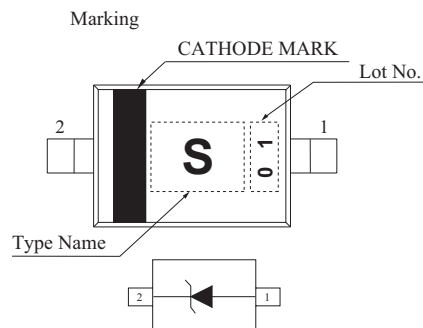
APPLICATIONS

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



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ($t_p=8/20 \mu s$)	P_{PK}	600	W
Peak Pulse Current ($t_p=8/20 \mu s$)	I_{PP}	10	A
Operating Temperature	T_J	150	
Storage Temperature	T_{STG}	-55 ~ 150	

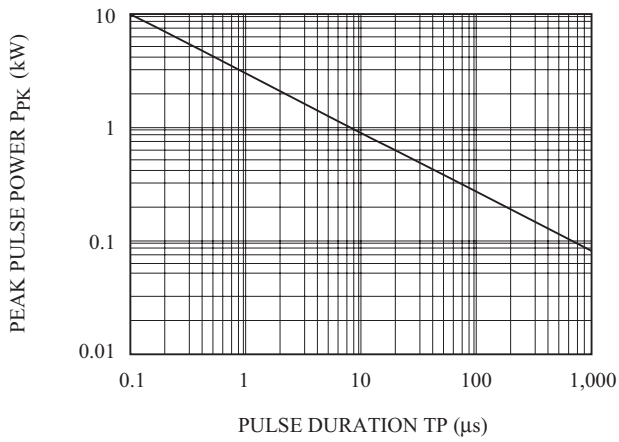


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

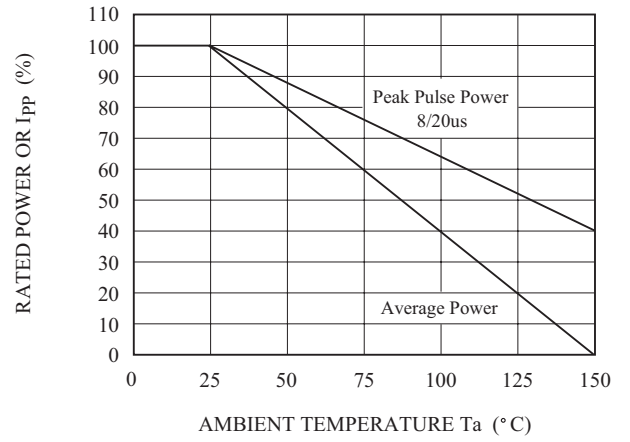
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	36	V
Reverse Breakdown Voltage	V_{BR}	$I_L=1mA$	42	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=36V$	-	-	100	nA
Clamping Voltage	V_C	$I_{PP}=5A, t_p=8/20 \mu s$	-	51	55	V
		$I_{PP}=10A, t_p=8/20 \mu s$	-	55	60	
Total Capacitance	C_T	$V_R=0V, f=1MHz$	-	70	100	pF
Electrostatic Discharge	V_{ESD}	IEC61000-4-2	Air	± 30	-	KV
			Contact	± 30	-	

PG36FSUSC

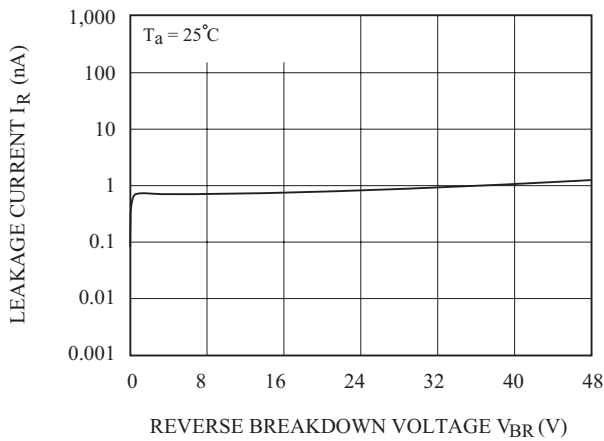
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



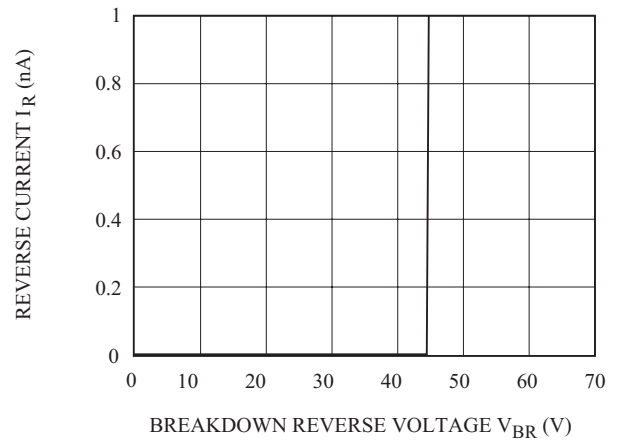
POWER DERATION CURVE



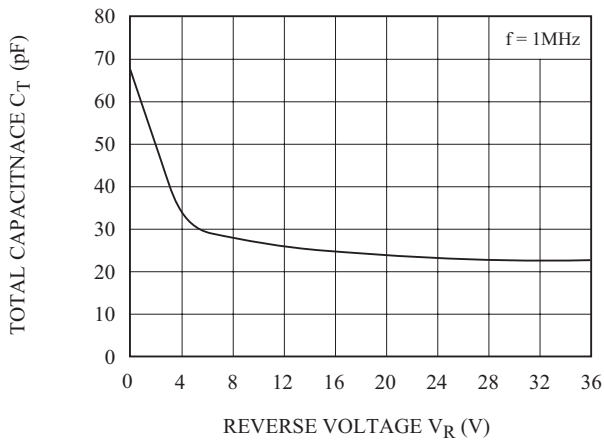
$I_R - V_R$



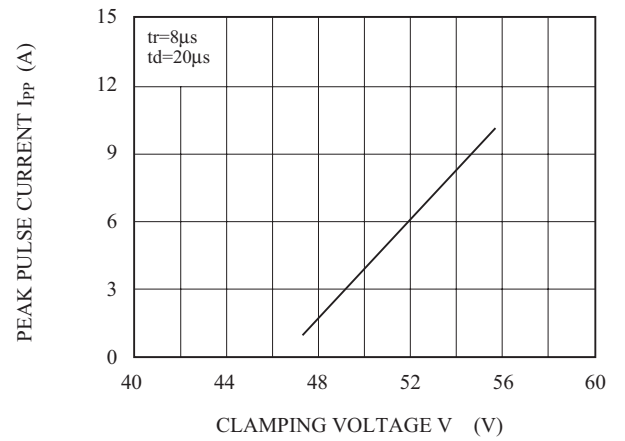
$I_R - V_{BR}$



$C_T - V_R$

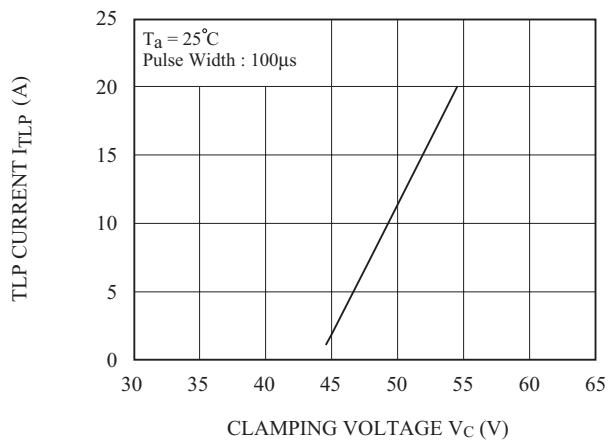


$V_C - I_{PP}$



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TLP CURVE



PULSE WAVEFORM

