

Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to
 - IEC61000-4-2(ESD) : Air mode $\pm 15\text{kV}$ / Contact mode $\pm 12\text{kV}$
 - IEC61000-4-5(Surge) : $2.5\text{A}(t_p=8/20\ \mu\text{s})$
- Low capacitance $C_T = 20\text{pF}(\text{Max})$
- Uni-directional, symmetrical working voltage up to : $V_{RWM} = 36\text{V}$
- Package Size $1.2 \times 0.8 \times 0.6\text{mm}$
- Suffix U : Qualified to AEC-Q101.

ex) PG36DSESC-RTK/HU



ESC (SMD-type)

PRODUCT DESCRIPTION

- Molding compound flammability rating : UL 94V-0
- Pb-Free, Halogen-Free, RoHs Compliant

Package dimensions (ESC)	Pin configurations (Uni-directional)																
<table border="1"> <thead> <tr> <th>DIM</th><th>MILLIMETERS</th></tr> </thead> <tbody> <tr> <td>A</td><td>1.60 ± 0.10</td></tr> <tr> <td>B</td><td>1.20 ± 0.10</td></tr> <tr> <td>C</td><td>0.80 ± 0.10</td></tr> <tr> <td>D</td><td>0.30 ± 0.05</td></tr> <tr> <td>E</td><td>0.60 ± 0.10</td></tr> <tr> <td>F</td><td>0.13 ± 0.05</td></tr> <tr> <td>G</td><td>0.20 ± 0.10</td></tr> </tbody> </table>	DIM	MILLIMETERS	A	1.60 ± 0.10	B	1.20 ± 0.10	C	0.80 ± 0.10	D	0.30 ± 0.05	E	0.60 ± 0.10	F	0.13 ± 0.05	G	0.20 ± 0.10	1. ANODE 2. CATHODE
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ORDERING INFORMATION

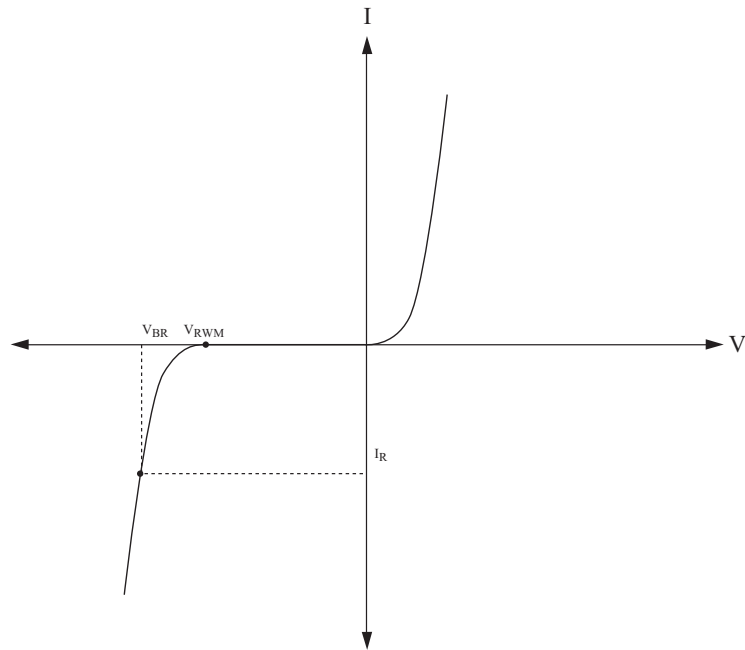
Part Number	Qty per Reel	Reel Size	Marking code
PG36DSESC-RTK	3,000	7 inch	DS
PG36DSESC-RTL	6,000		

PG36DSESC

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P _{PK}	150	W
Peak Pulse Current (tp=8/20 μs)	I _{PP}	2.5	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 150	°C

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL

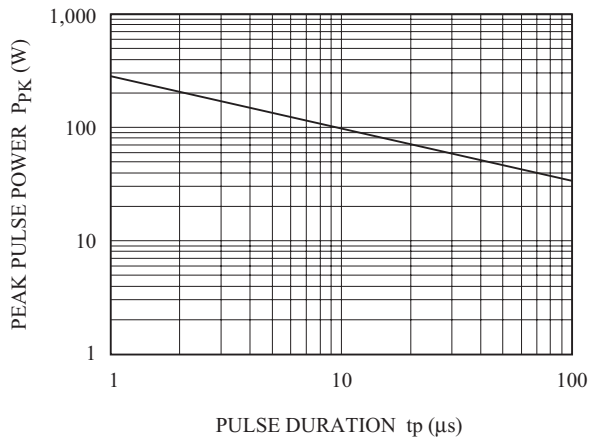


ELECTRICAL CHARACTERISTICS (Ta=25°C)

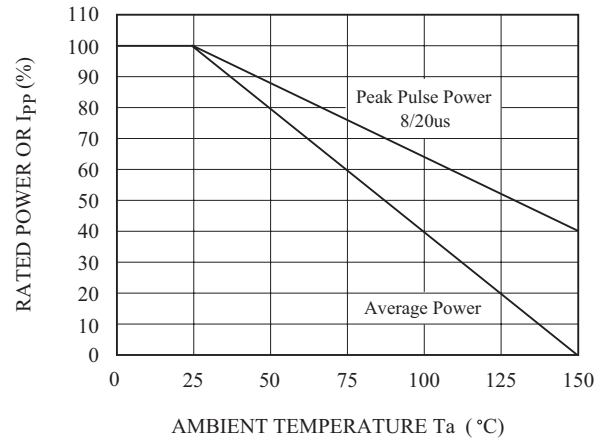
CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-		-	-	36	V
Reverse Breakdown Voltage	V _{BR}	I _t =1mA		38	-	-	V
Reverse Leakage Current	I _R	V _{RWM} =36V		-	-	100	nA
Clamping Voltage	V _C	I _{pp} =1A, tp=8/20 μs (IEC61000-4-5)		-	45	50	V
		I _{pp} =2.5A, tp=8/20 μs (IEC61000-4-5)		-	55	60	
Total Capacitance	C _T	V _R =0V, f=1MHz		-	15	20	pF
Electrostatic Discharge	V _{ESD}	IEC61000-4-2	Air	±15	-	-	kV
			Contact	±12			

PG36DSESC

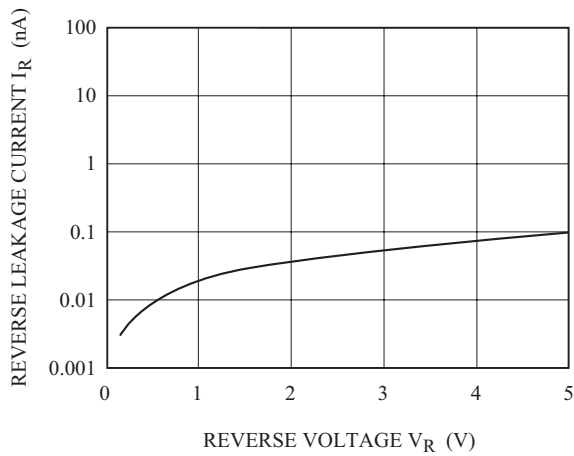
NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME



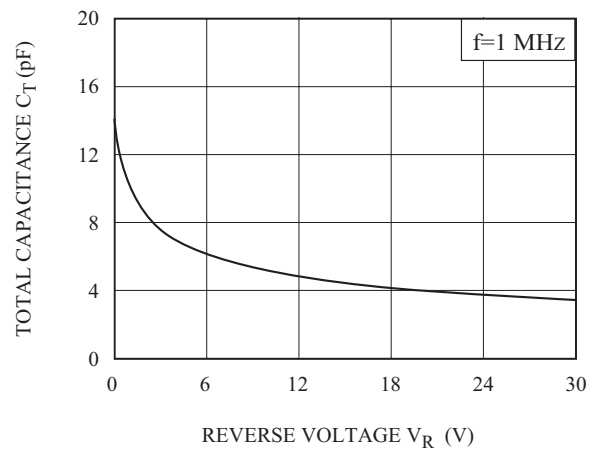
POWER DERATION CURVE



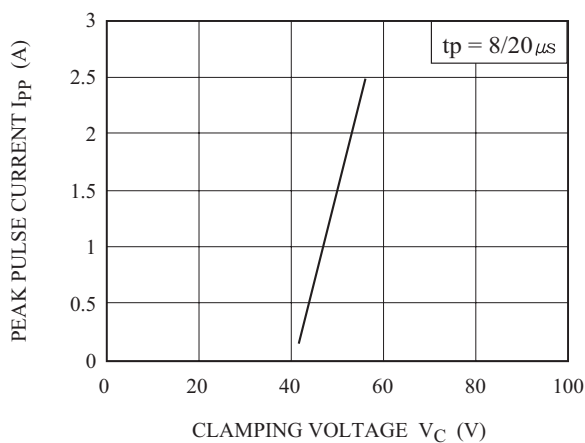
$I_R - V_R$



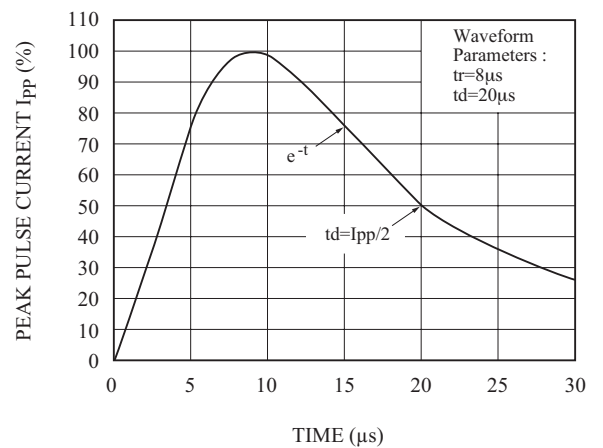
$C_T - V_R$



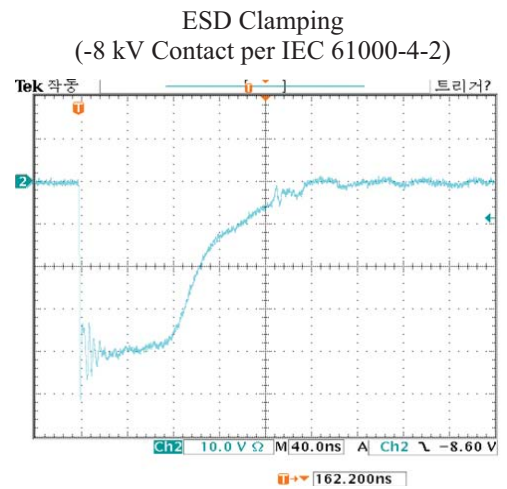
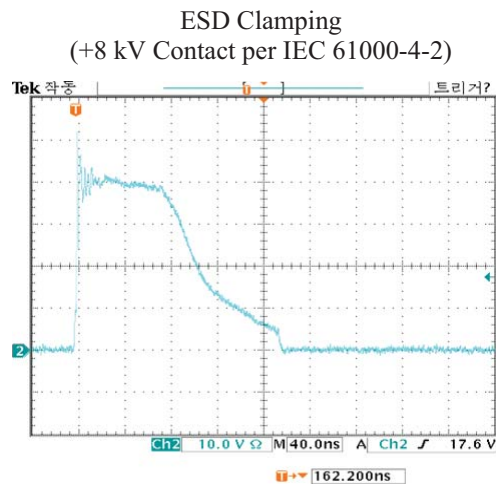
$I_{PP} - V_C$

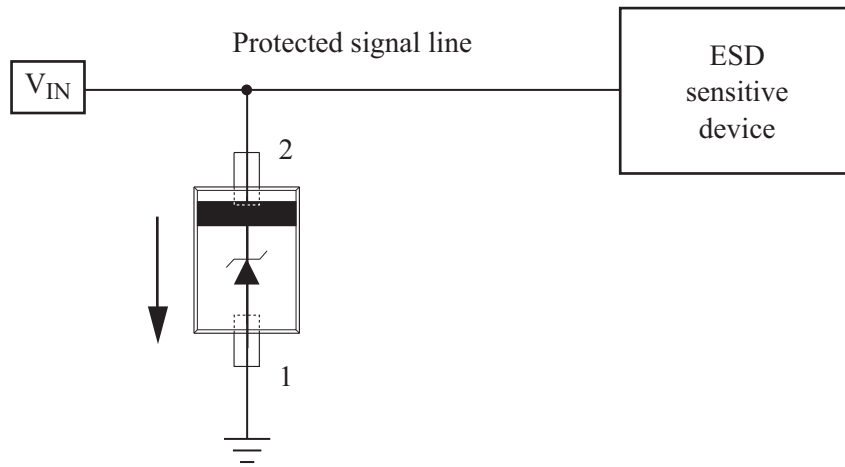


PULSE WAVEFORM



PG36DSESC





Recommended pad dimension & Marking Information

Recommended pad dimension	Marking Code
1.4 0.6 0.5	CATHODE MARK DS 2 1