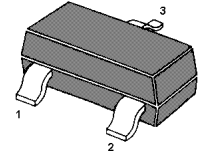
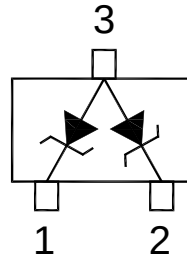


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ESD Protection

Features

- Low Clamping Voltage
- Low Operating Voltage



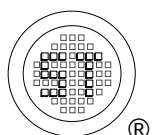
Marking Code : **C5**
TO-236 Plastic Package

Absolute Maximum Ratings (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	175	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	13.5	A
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 30 ± 30	KV
Operating Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	-	5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	6	-	8	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	I_R	-	-	0.1	μA
Clamping Voltage at $I_{PP} = 13.5 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	-	13	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	140	-	pF



Electrical Characteristics Curves

Fig 1. Pulse Waveform

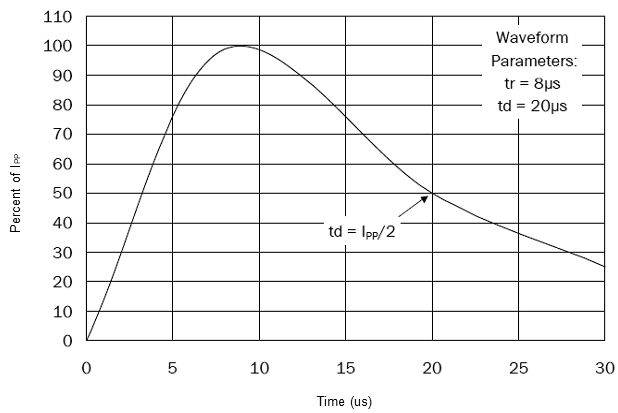


Fig 2. Power Derating Curve

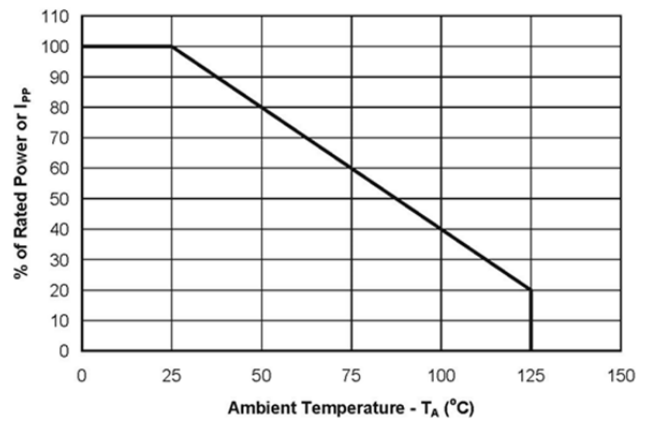


Fig 3. Junction Capacitance

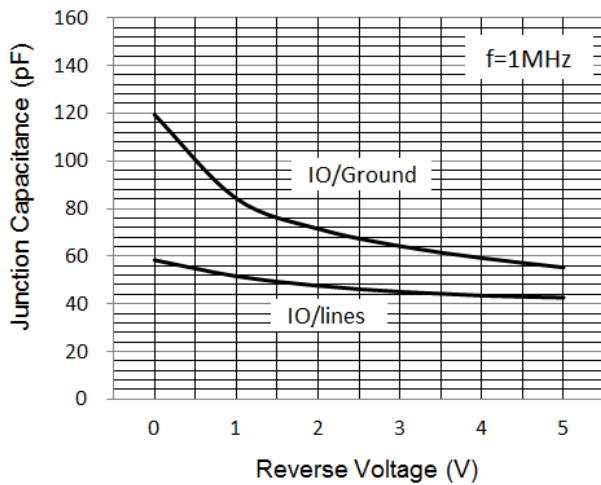


Fig 4. Clamping Voltage vs Peak Pulse Current

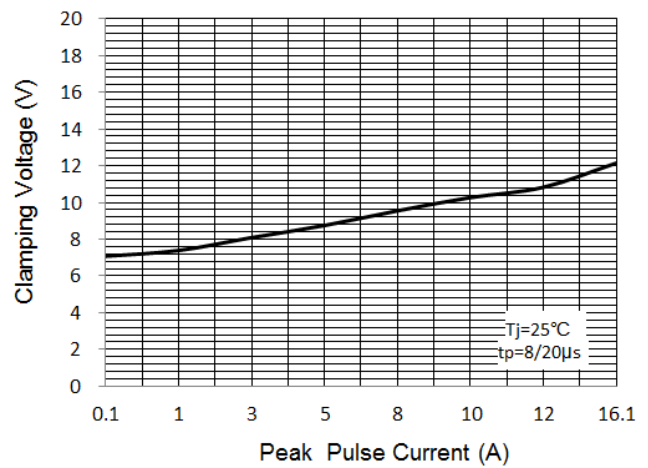
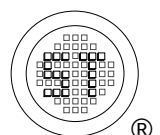
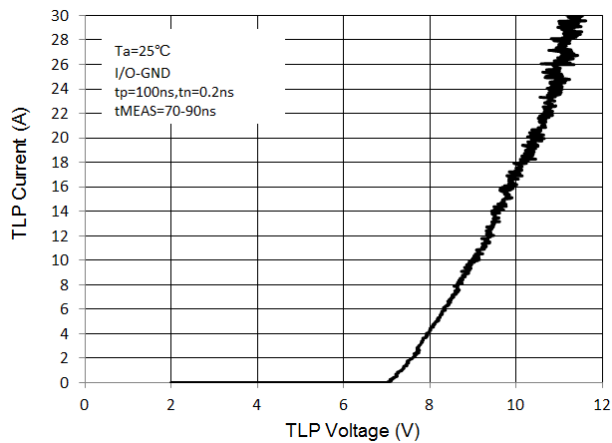


Fig 5. TLP Curve

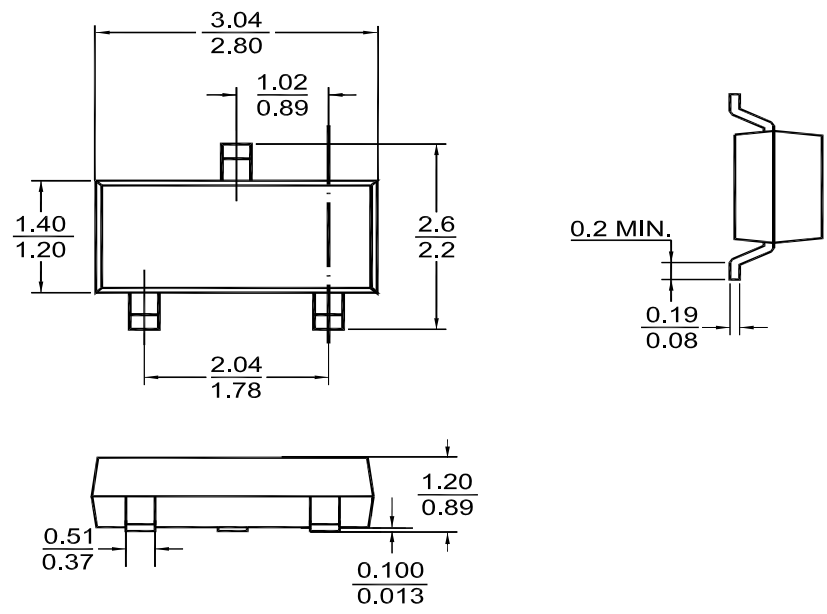


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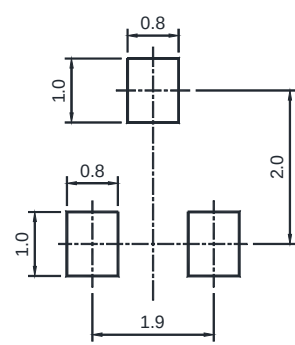
PACKAGE OUTLINE

Plastic surface mounted package (Dimensions in mm)

TO-236



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-236	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" C5 " = Part No.
"YM" = Date Code Marking
"Y" = Year
"M" = Month
Font type: Arial

