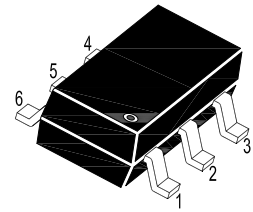
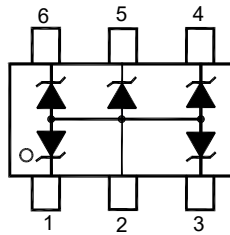


MMBD05CDW

Transient Voltage Suppressor

ESD protection



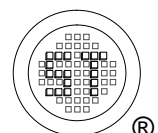
1. I/O1 2. GND 3. I/O2
4. I/O3 5. I/O4 6. I/O5
Marking Code: 5C
SOT-363 Plastic package

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

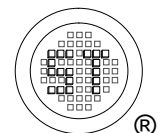
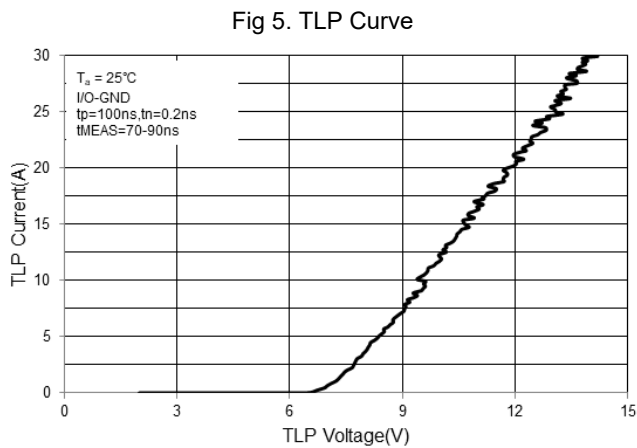
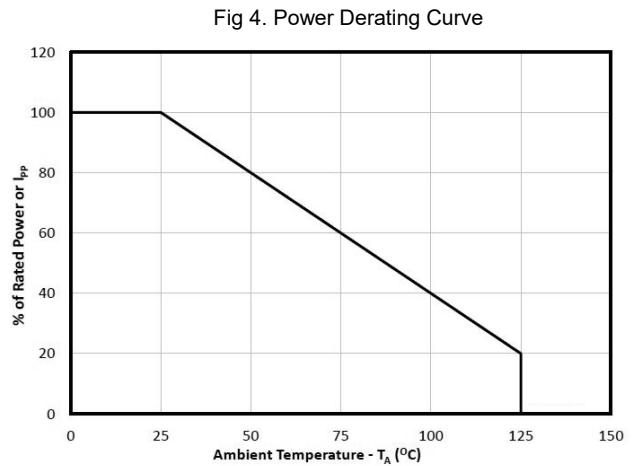
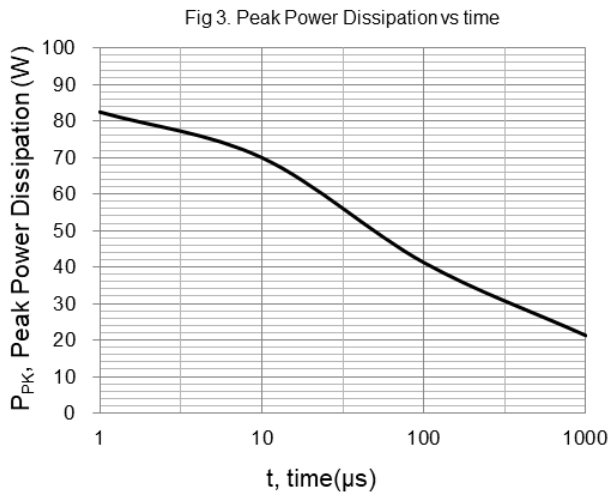
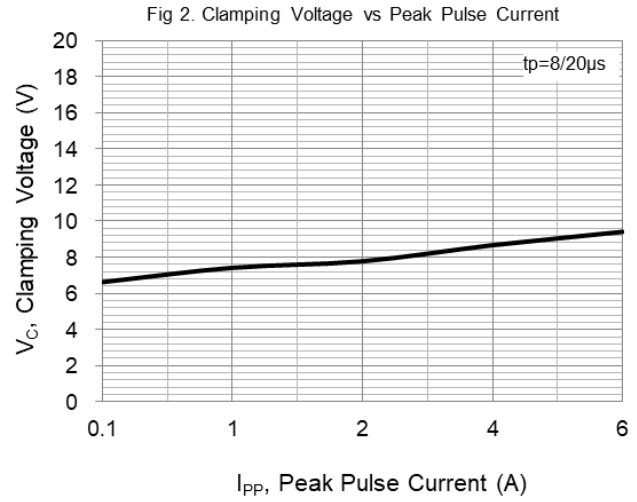
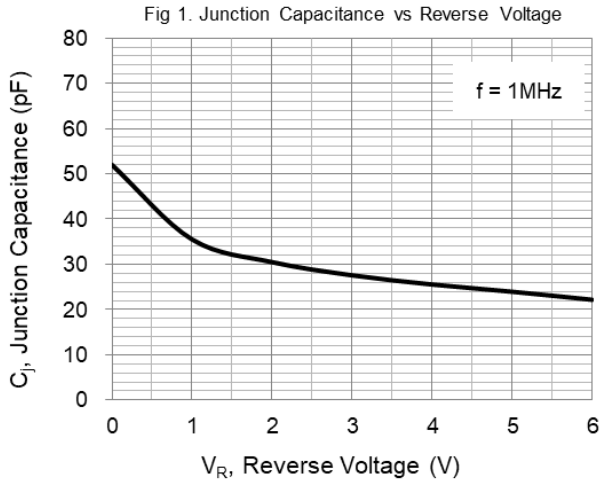
Parameter	Symbol	Value	Unit
Peak Power Dissipation ($t_p = 8/20 \mu\text{s}$)	P_{PK}	75	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	6	A
ESD per IEC 61000-4-2	Air Contact V_{ESD}	20 15	KV
Operating junction Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	V_{BR}	6	9.5	V
Leakage Current at $V_R = 5 \text{ V}$	I_R	-	0.1	μA
Clamping Voltage at $I_{PP} = 6 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	12.5	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	130	pF



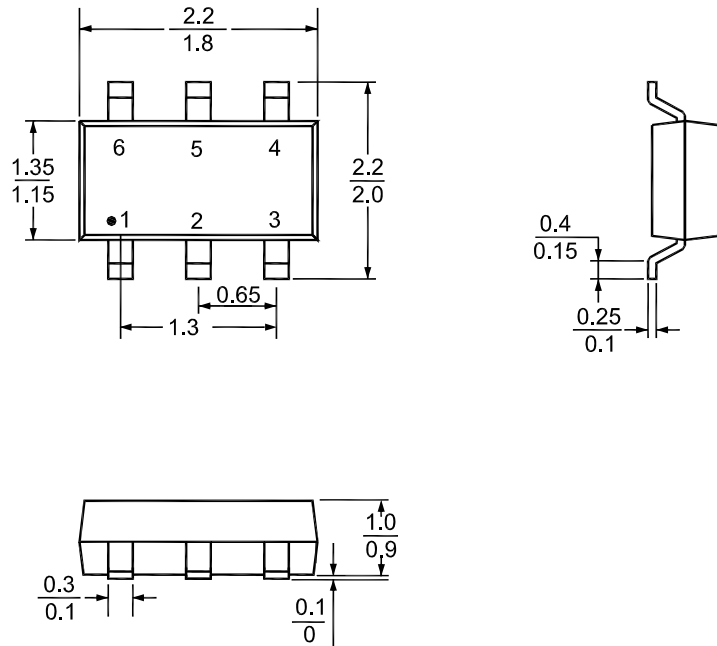
Electrical Characteristics Curves



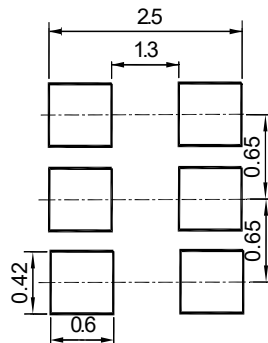
MMBD05CDW

Package Outline Dimensions (Units: mm)

SOT-363



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-363	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

"5C" = Part No.
 "YM" = Date Code Marking
 "Y" = Year
 "M" = Month
 Font type: Arial

