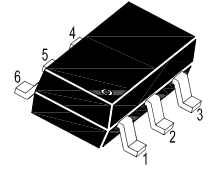
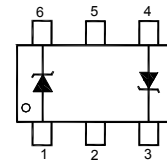


■ Surface Mount Silicon Planar Zener Diodes



1. A1 2. NC 3. C2
4. A2 5. NC 6. C1

■ Simplified outline(SOT-363)

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

Parameter	Symbol	Value	Unit
Power Dissipation ¹⁾	P_{tot}	200	mW
Operating Junction and Storage Temperature Range	T_J, T_{stg}	- 65 to + 150	$^\circ\text{C}$

¹⁾ Mounted on FR4 PC Board with recommended pad layout.

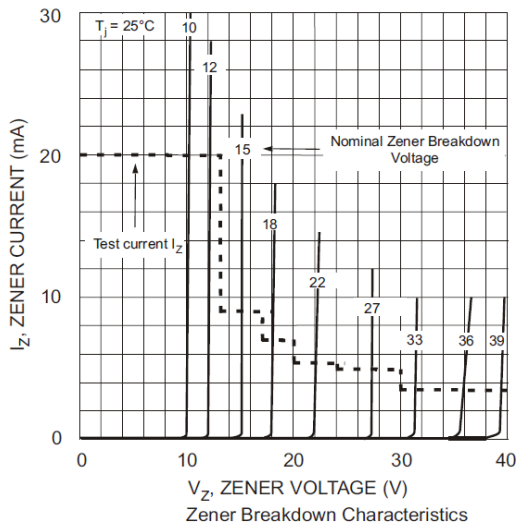
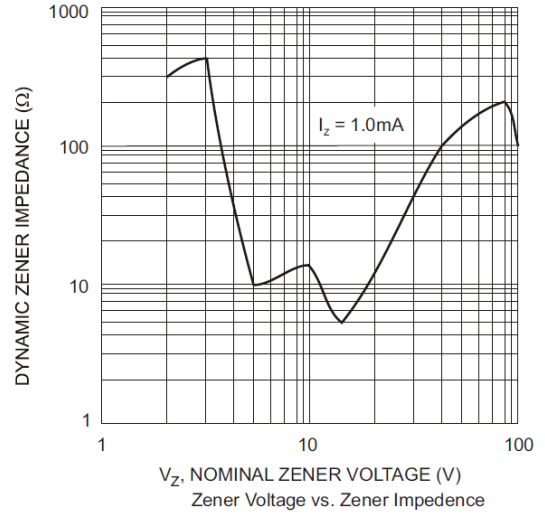
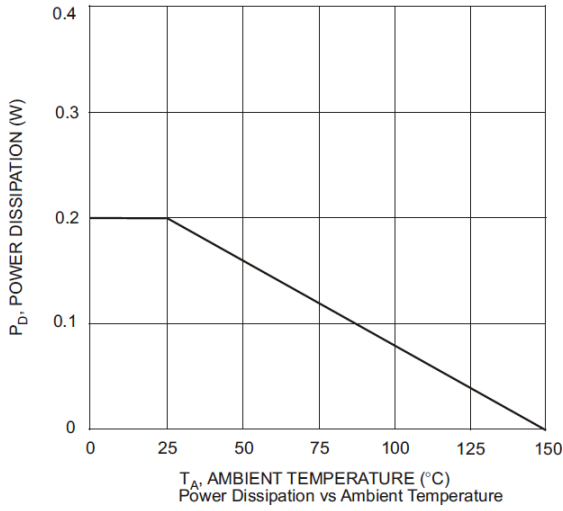
■ Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta\text{JA}}$	625	$^\circ\text{C}/\text{W}$
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	0.9	V

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

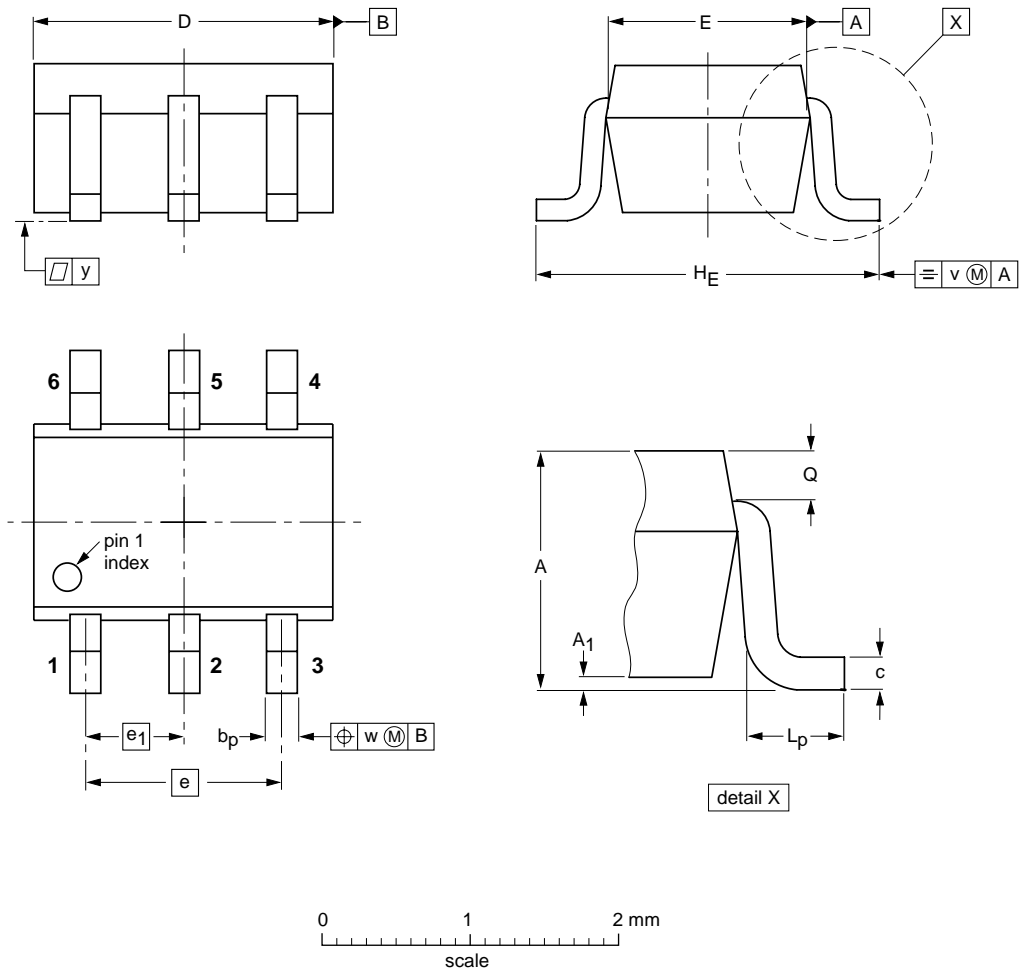
Type	Marking Code	Zener Voltage Range ¹⁾				Dynamic Resistance				Reverse Current	
		V_{znom}	V_{ZT}		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_{R}	at V_{R}
		(V)	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
MMBZ5237DW	GR	8.2	7.79	8.61	20	8	20	500	0.25	3	6.5
MMBZ5240DW	GT	10	9.5	10.5	20	17	20	600	0.25	3	8
MMBZ5248DW	GZ	18	17.1	18.9	7	21	7	600	0.25	0.1	14

¹⁾ Short duration test pulse used to minimize self-heating effect.



Package Outline

SOT-363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w	y
mm	1.1 0.8	0.1	0.30 0.20	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.25 0.15	0.2	0.2	0.1

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-363	Tape/Reel, 7" reel	3000	EIA-481-1