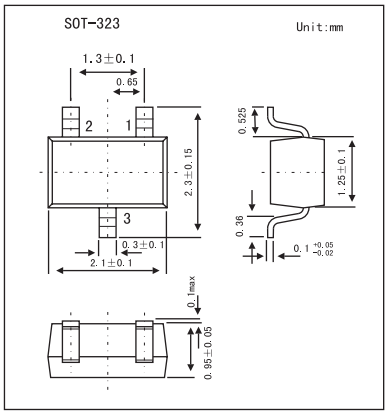
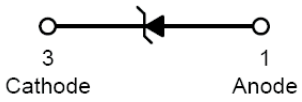
200mW Surface Mount Zener Diode
MMBZ5251BW



Features

- Planar Die Construction
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes



Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Voltage @ I_F = 10mA	V_F	0.9	V
Power Dissipation *1	P_d	200	mW
Thermal Resistance, Junction to Ambient Air *1	$R_{\theta JA}$	625	℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	℃

*1. Part mounted on FR-4 PC board with recommended pad layout

Electrical Characteristics @TA=25℃ unless otherwise specified

Type Number	Zener Voltage Range *1				Maximum ZenerImpedance *2		Maximum Reverse Leakage Current *1	
	Vz @I_{ZT}			I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}= 0.25mA	I_R	@ V_R
	Nom (V)	Min (V)	Max (V)	mA	Ω		uA	V
MMBZ5251BW	22	20.9	23.1	5.6	29	600	0.1	17

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

*2. f = 1KHz.

Marking

Marking	KK1

MMBZ5251BW

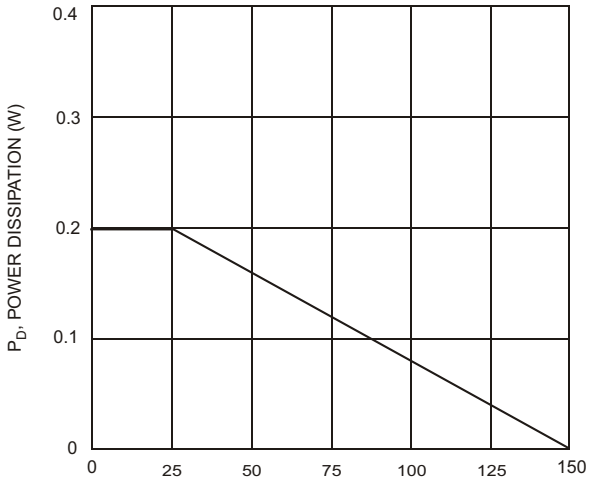


Fig. 1 Power Dissipation vs Ambient Temperature

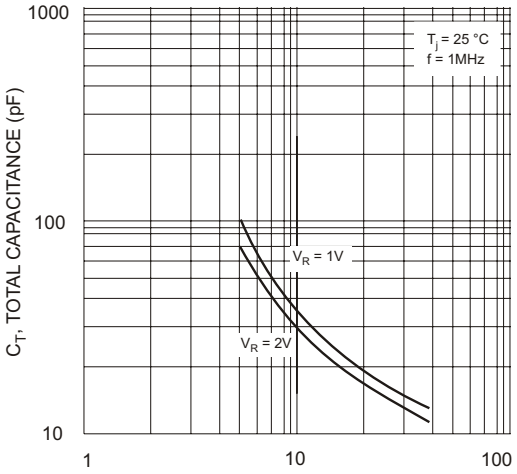


Fig. 2 Total Capacitance vs Nominal Zener Voltage

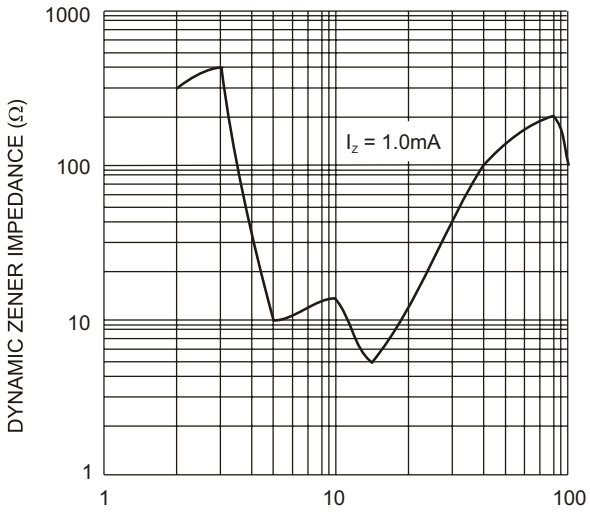


Fig. 3 Zener Voltage vs. Zener Impedence

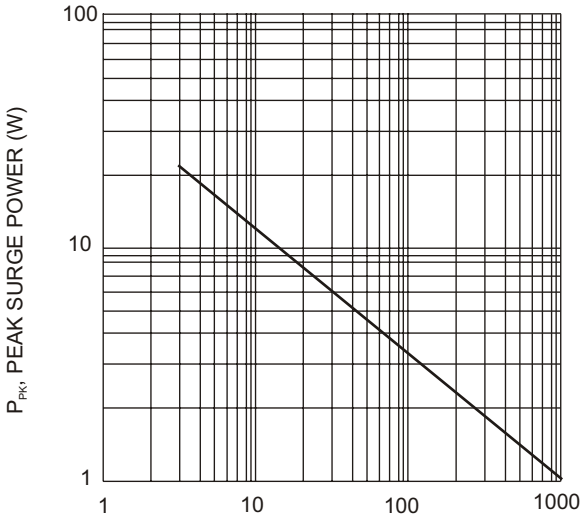


Fig. 4 Maximum Non-repetitive Surge Power

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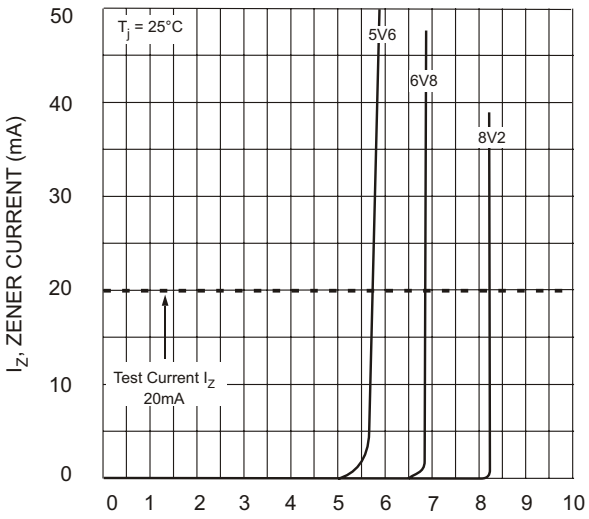

Fig. 5 Zener Breakdown Characteristics

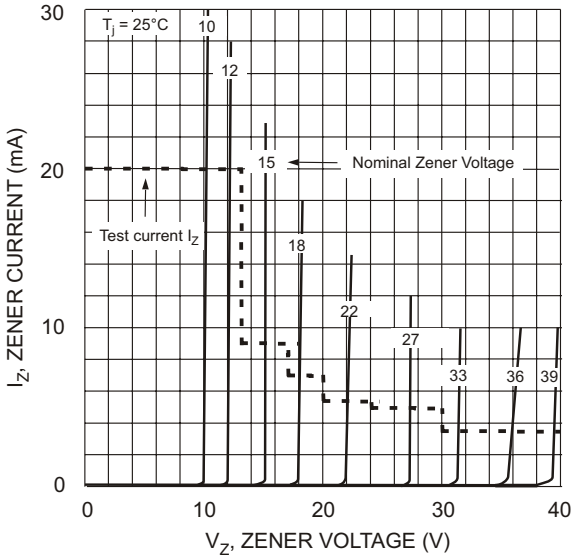

Fig. 6 Zener Breakdown Characteristics