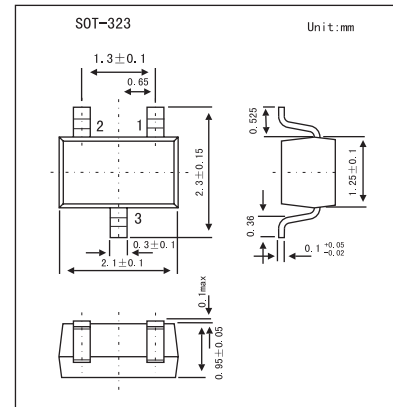
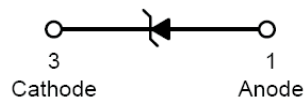


200mW Surface Mount Zener Diode MMBZ5231BW

■ Features

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



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

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

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

■ Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Type Number	Zener Voltage Range *1				Maximum Zener Impedance *2		Maximum Reverse Leakage Current *1		
	$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK} = 0.25\text{mA}$	I_R	@ V_R	
	Nom (V)	Min (V)	Max (V)	mA	Ω		μA	V	
MMBZ5231BW	5.1	4.85	5.36	20	17		1600	5	2

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

*2. $f = 1\text{KHz}$.

■ Marking

Marking	KE1
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MMBZ5231BW

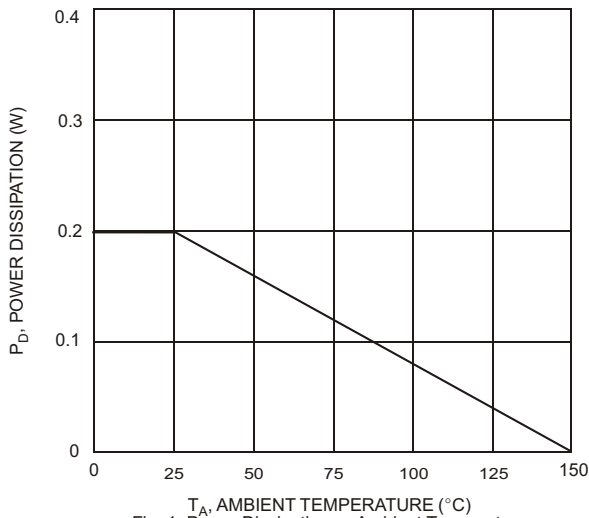


Fig. 1 Power Dissipation vs Ambient Temperature

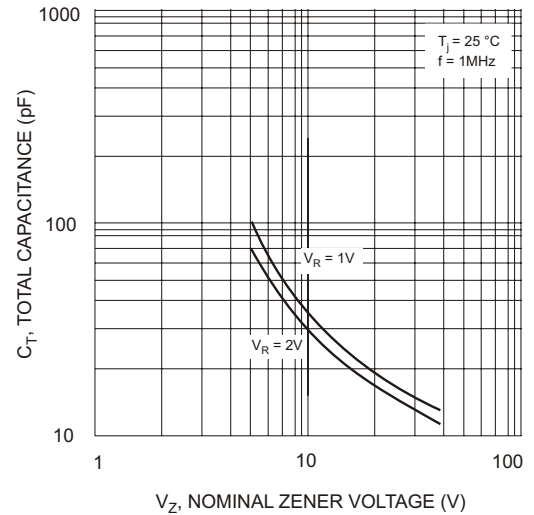


Fig. 2 Total Capacitance vs Nominal Zener Voltage

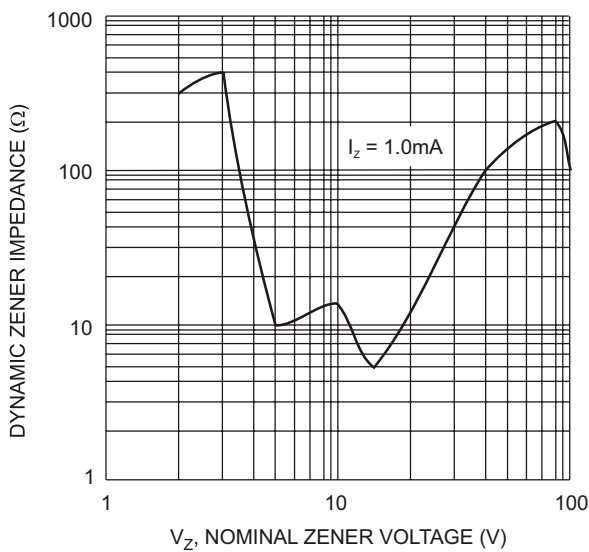


Fig. 3 Zener Voltage vs. Zener Impedance

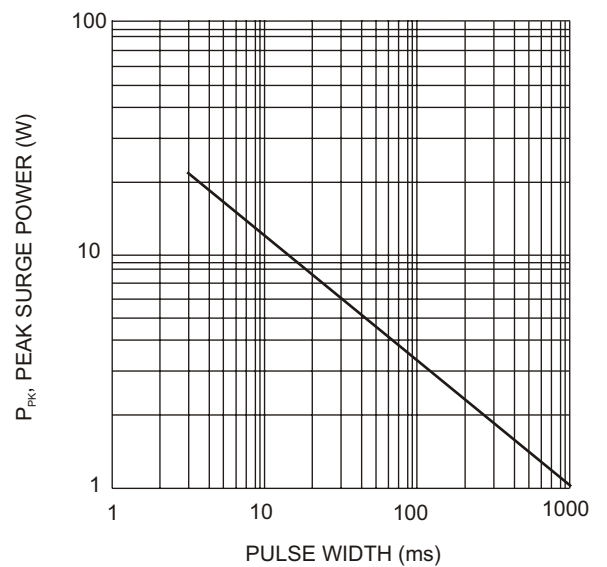


Fig. 4 Maximum Non-repetitive Surge Power

MMBZ5231BW

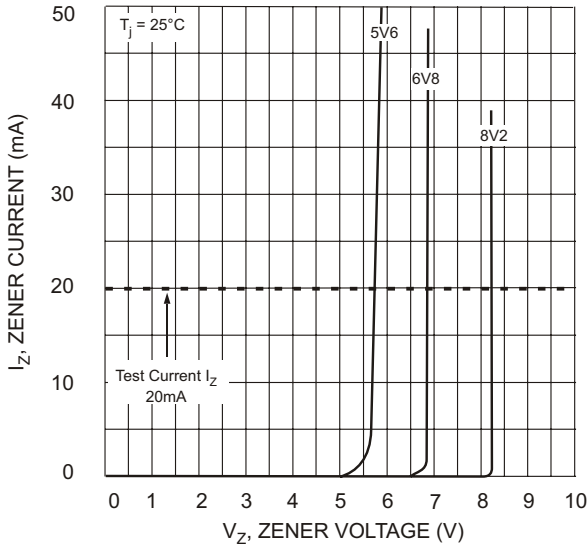


Fig. 5 Zener Breakdown Characteristics

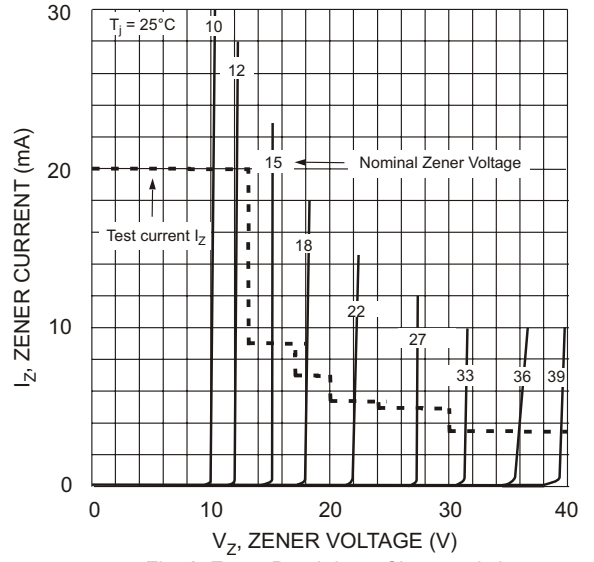


Fig. 6 Zener Breakdown Characteristics