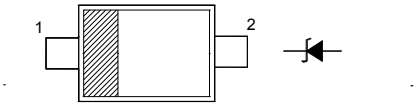
SILICON PLANAR ZENER DIODES

Features

- Power Dissipation: 200 mW
- Zener Voltage Tolerance: ± 2%

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Simplified outline SOD-523 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Total Device Dissipaton	P_{tot}	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{Stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{èJA}$	635	°C/W
Forward Voltage at I_F = 10 mA	V_F	0.9	V

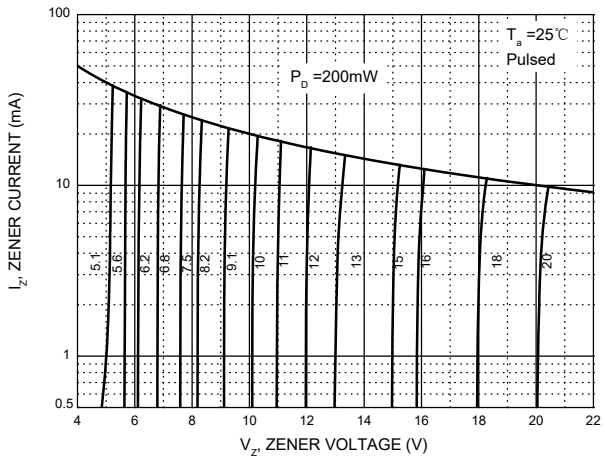
Type	Zener Voltage Range [1]			Dynamic Impedance		Reverse Leakage Current	
	V_{znom}	I_{ZT} for	V_{ZT}	Z_{ZT} (Max.)	at I_Z	I_R (Max.)	at V_R
	V	mA	V	Ω	mA	uA	V
BZX584B5V6	5.6	5	5.488…5.712	80	5	1	2.5

[1] Tested with pulses tp = 20 ms.

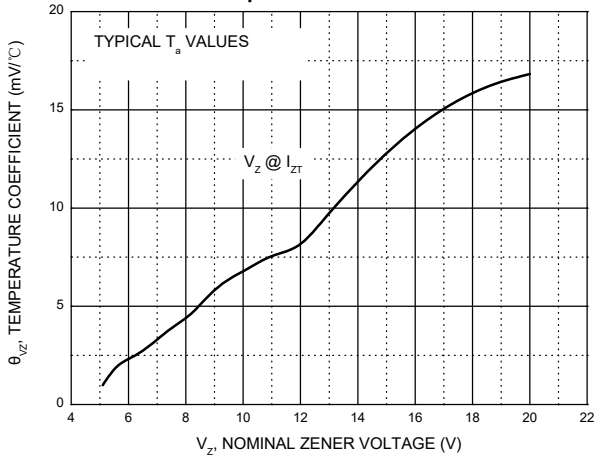
Typical Characteristics

Notes: Our company currently provide 5.1 V - 20 V products only

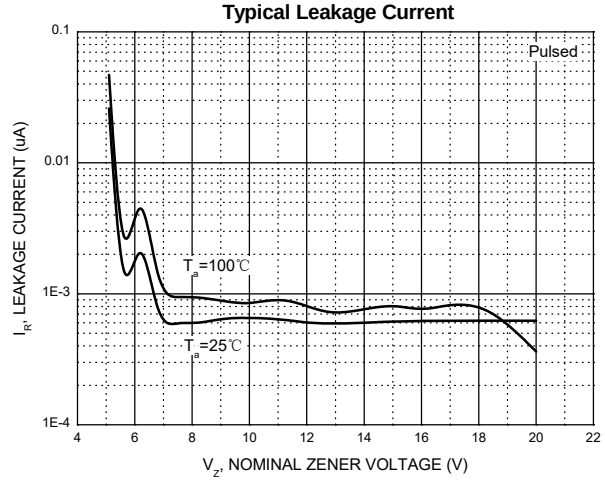
Zener Characteristics (V_z)



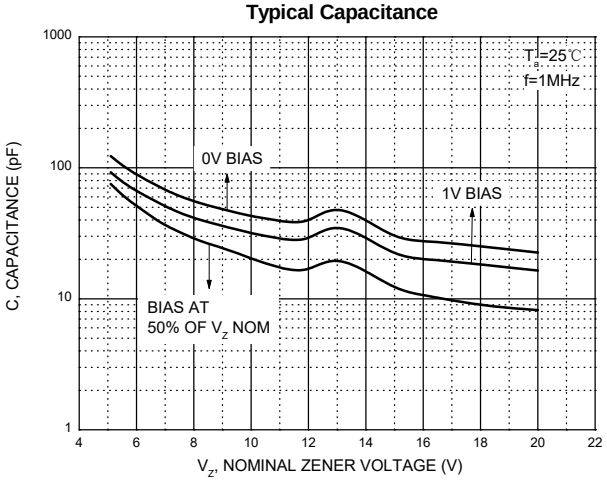
Temperature Coefficients



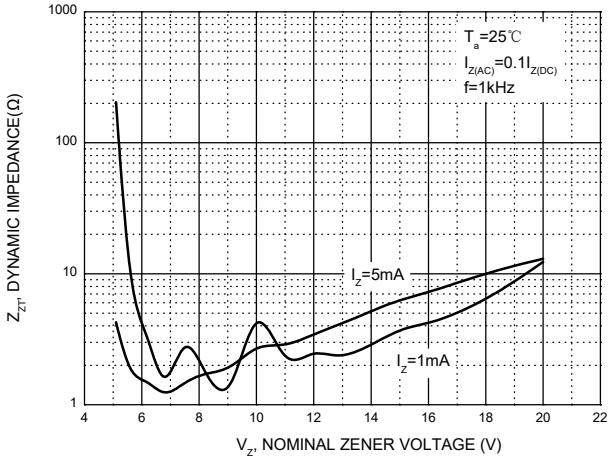
Typical Leakage Current



Typical Capacitance



Effect of Zener Voltage on Zener Impedance



Power Derating Curve

