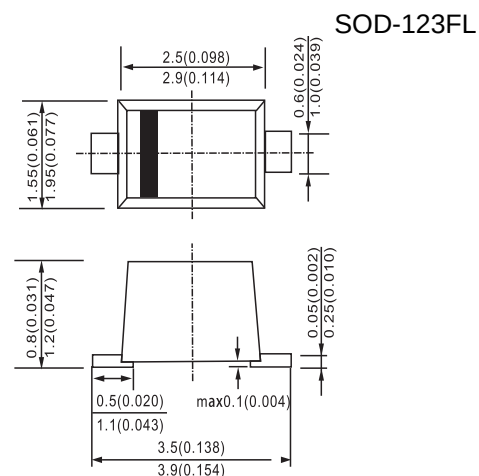


FEATURES

- Silicon Planar Zener Diode
- 1000mW Power Dissipation
- Zener and surge current specification
- Low leakage current
- Excellent stability
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123FL, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.0006 ounces, 0.0173 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Forward Voltage at 0.2A	V_F	1.2	V
Power Dissipation	P_D	1	W
Typical Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	200	°C/W
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _{Z@I_{ZT}}			Z _{ZT@I_{ZT}}		Z _{ZK@I_{ZK}}		I _{R@V_R}		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
AZD27C21	21	20.0	22.4	15	20	750	0.25	10	15	C21

NOTES:

1. Mounted on an FR4 PCB, single-sided copper, mini pad.



TAYCHIPST

VOLTAGE REGULATOR ZENER DIODES

AZD27C21

27V 1.0W

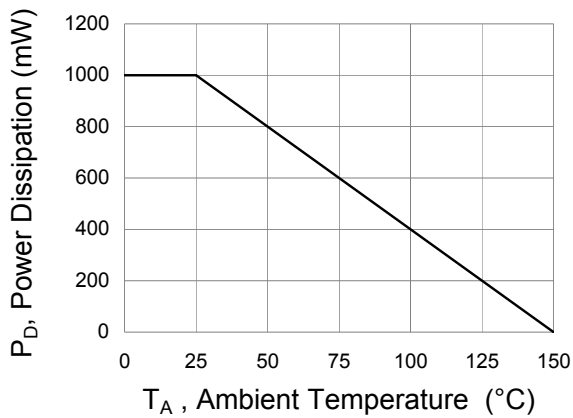


Fig.1 Power Derating Curve

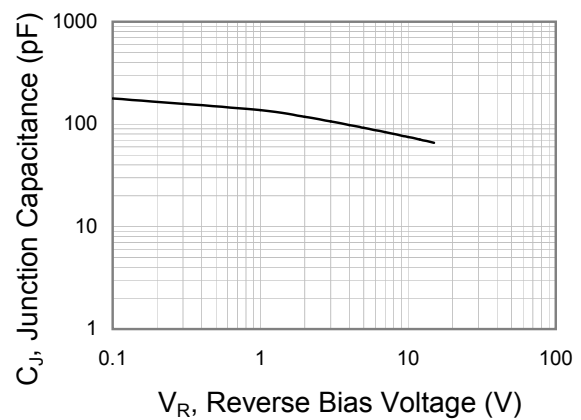


Fig.2 Typical Junction Capacitance

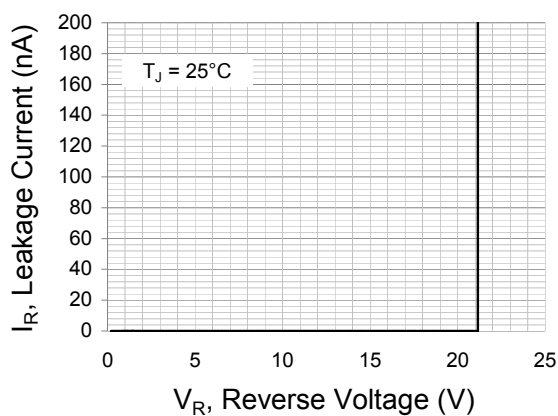


Fig.3 Typical Leakage Characteristics

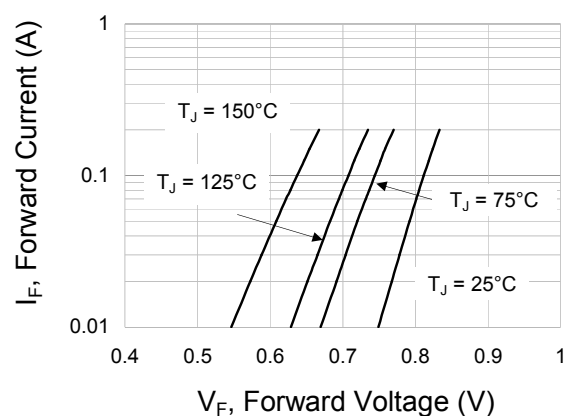


Fig.4 Typical Forward Characteristics

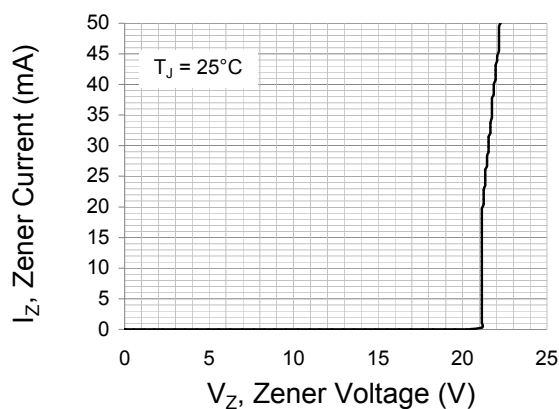


Fig.5 Typical Zener Characteristics

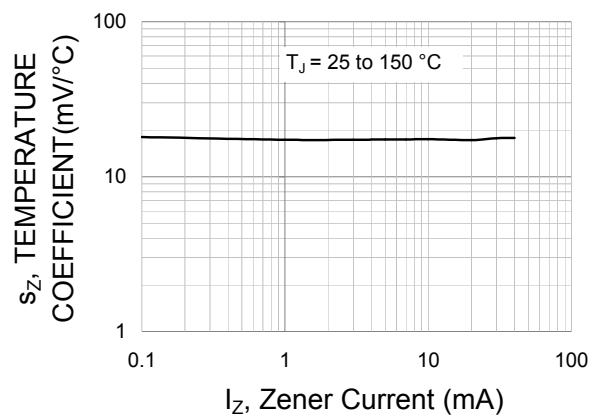


Fig.6 Temperature coefficient as a function of working current; typical values.