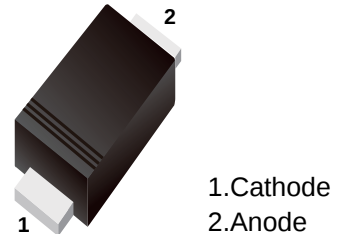




■ Features

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time
- Low reverse capacitance



■ Simplified outline(SOD-523)

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	V _{RRM}	40	V
Working peak	V _{RWM}		
DC blocking voltage	V _R		
RMS reverse voltage	V _{R(RMS)}	28	V
Forward continuous current	I _{FM}	350	mA
Non-Repetitive Peak Forward Surge Current @t ≤ 1.0s	I _{FRM}	1.5	A
Power Dissipation	P _d	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	667	°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +125	°C

Notes: 1. Part mounted on FR-4 board with recommended pad layout

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _{(BR)R}	I _R = 100 μA	40			V
Forward Voltage Drop	V _{FM}	I _F = 20mA I _F = 200mA			0.37 0.60	V
Peak Reverse Current	I _{RM}	V _R = 30V			5	μA
Total Capacitance	C _T	V _R = 0V, f = 1.0MHz		50		pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 200mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω		10		ns

■ TypIacl Characteristics

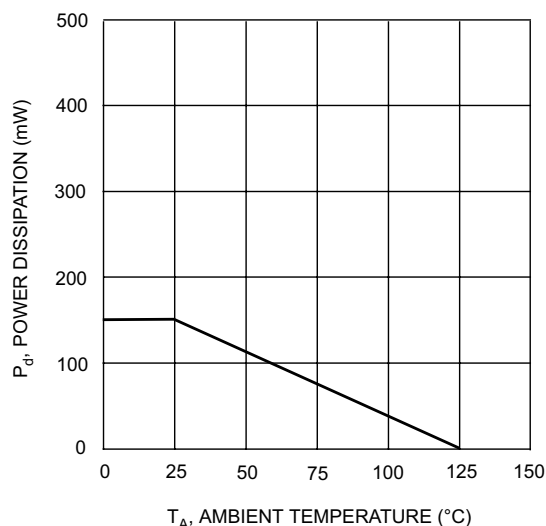


Fig.1 Power Derating Curve

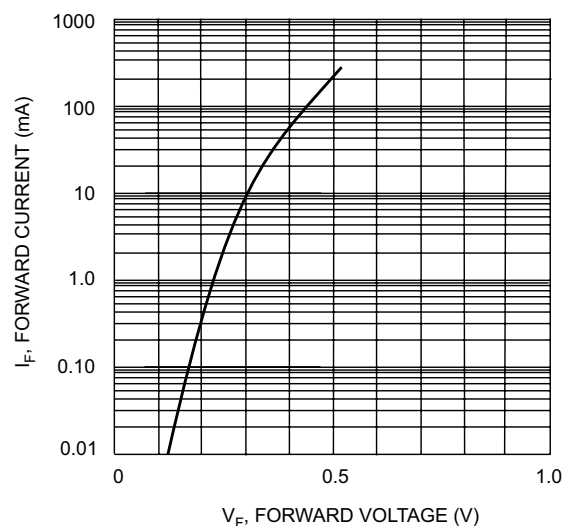


Fig. 2 Typical Forward Characteristics

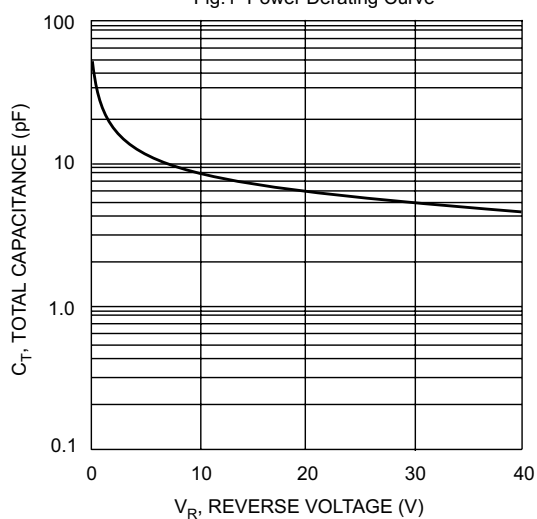
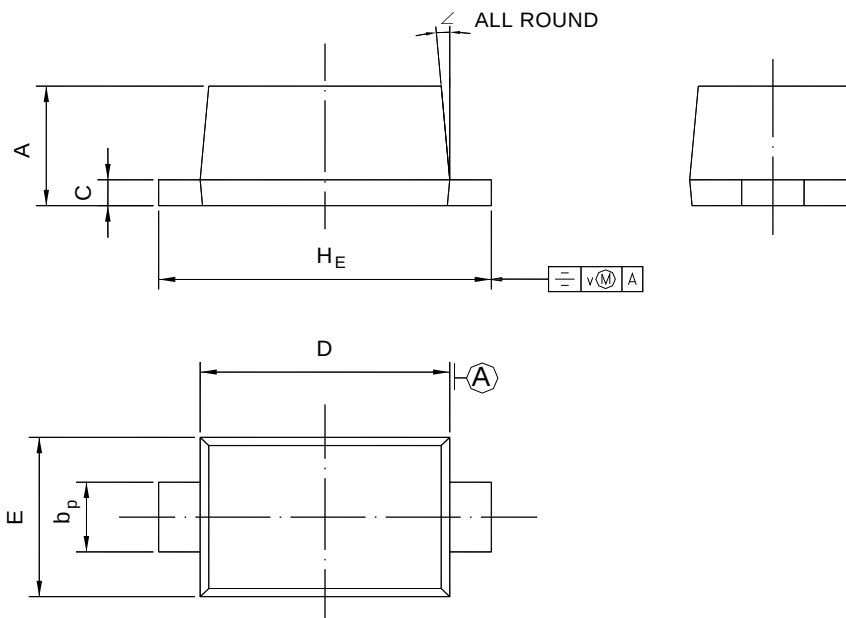


Fig. 3 Typ. Total Capacitance vs Reverse Voltage

Package Outline
SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b _p	C	D	E	H _E	V	⌡
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-523	Tape/Reel, 7" reel	3000	EIA-481-1