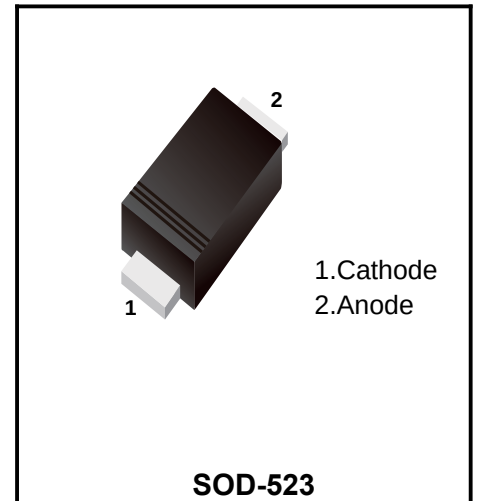


Schottky Barrier Diode

Features

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



MARKING:S4

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	VRRM	40	V
Working peak	VRWM		
DC blocking voltage	VR		
RMS reverse voltage	VR(RMS)	28	V
Forward continuous current	IFM	350	mA
Non-Repetitive Peak Forward Surge Current @t≤1.0s	IFRM	1.5	A
Power Dissipation	Pd	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	667	°C/W
Operating and Storage Temperature Range	Tj, TSTG	-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	IR=100 μ A	40			V
Forward Voltage Drop	VFM	IF = 20mA IF = 200mA			0.37 0.60	V
Peak Reverse Current	IRM	VR = 30V			5	μ A
Total Capacitance	CT	VR = 0V, f = 1.0MHz		50		pF
Reverse Recovery Time	t _{rr}	IF = IR = 200mA, Irr = 0.1 X IR, RL = 100 Ω		10		ns

Typical characteristics

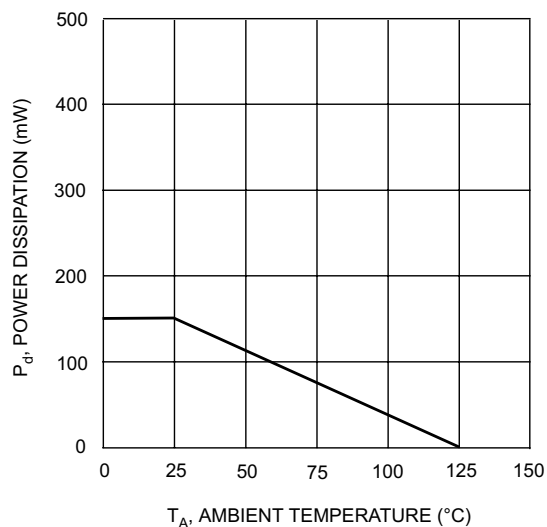


Fig. 1 Power Derating Curve

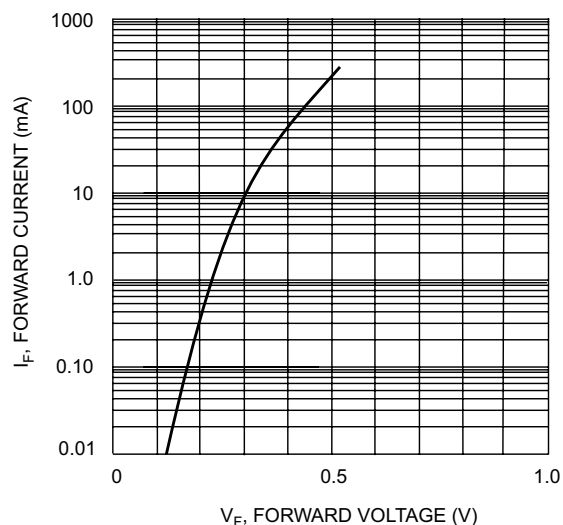


Fig. 2 Typical Forward Characteristics

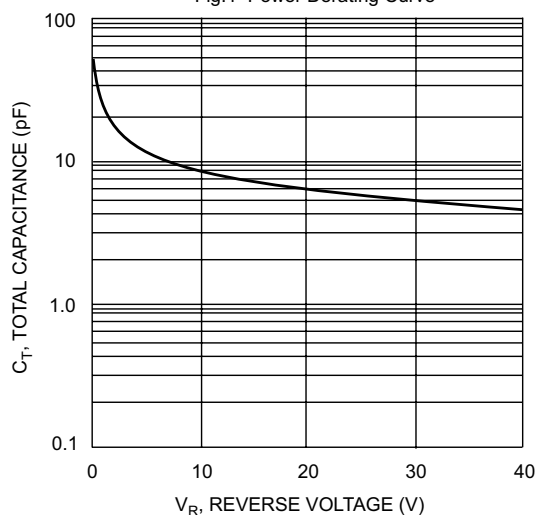
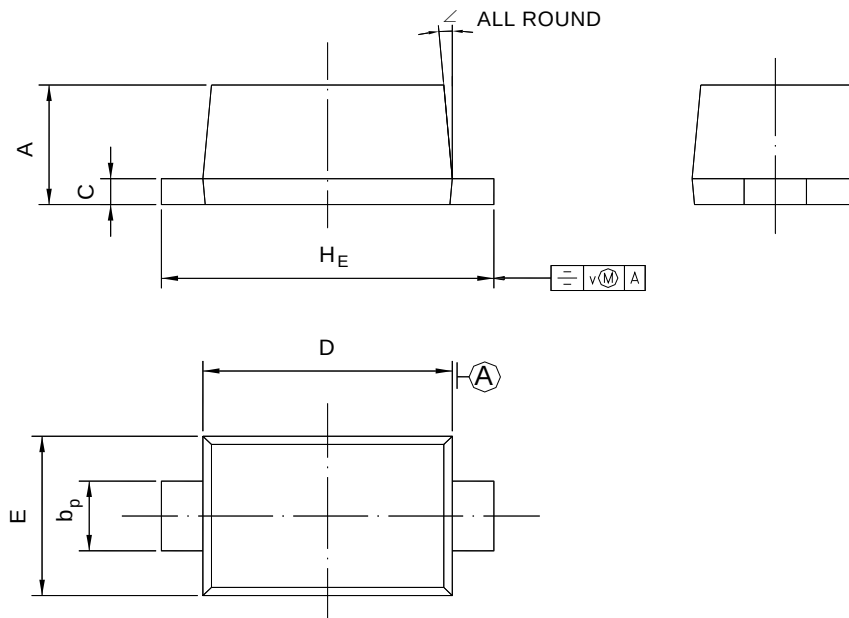


Fig. 3 Typ. Total Capacitance vs Reverse Voltage

Package Outline

SOD-523



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [YFW Electronics](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [RKS100KG#P1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)
[NRVBAF360T3G](#) [NSR05F40QNX5G](#) [NTE555](#) [SB10-04A3-BT](#) [SBM30-03-TR-E](#) [SBS811-S-TL-E](#) [SBS818-TL-E](#) [SS3003CH-TL-E](#)
[STPS30S45CW](#) [GA01SHT18](#) [CRS10I30A\(Te85L,QM](#) [MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [IDL08G65C5](#) [JANTX1N5712-1](#) [SB007-](#)
[03C-TB-E](#) [SB10015M-TL-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#) [NTSB30U100CT-1G](#) [STPS40SM100CG-TR](#) [CRG04\(T5L,TEMQ\)](#)
[ACDBA240-HF](#) [CDBQC0530L-HF](#) [STPS40SM120CTN](#) [NRVBM120ET1G](#) [STPS2545CGY-TR](#) [B160BQ-13-F](#) [SDM05U20CSP-7](#) [BAS 70-](#)
[07 E6433](#) [HSM560Je3/TR13](#) [HSM190Je3/TR13](#) [B330AF-13](#) [ACDBUC0230-HF](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#) [VS-](#)
[50WQ04FNTRL-M3](#) [1N5817-G](#) [B350AF-13](#) [MF300A06F2](#) [SEMIX302KD16S](#) [5082-2835](#)