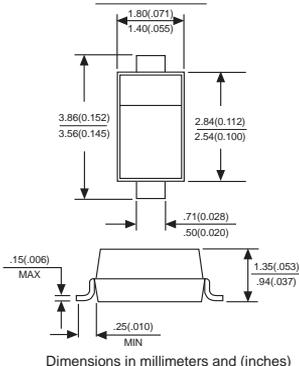


B0520LW/B0530W/B0540W

SCHOTTKY DIODE

SOD-123



FEATURES

- ◆ Low forward voltage drop
- ◆ Guard ring construction for transient protection
- ◆ High conductance
- ◆ Also available in lead free version

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: B0520LW:SD, B0530W:SE, B0540W:SF

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @T_A=25°C

PARAMETER	SYMBOLS	B0520LW	B0530W	B0540W	UNITS
Peak repetitive peak reverse voltage	V _{RRM}				VOLTS
Working peak reverse voltage	V _{RWM}	20	30	40	
DC Blocking voltage	V _R				V
RMS Reverse voltage	V _{R(RMS)}	14	21	28	
Average rectified output current	I _o		500		mA
Peak forward surge current	I _{FSM}		5.5		A
Power dissipation	P _d		410		mW
Thermal resistance junction to ambient	R _{θJA}		244		°C/W
Storage temperature	T _{STG}		-65 to +150		°C
Voltage rate of change	dv/dt		1000		V/US

Electrical ratings @T_A=25°C

PARAMETER	SYMBOLS	B0520LW	B0530W	B0540W	Unit	Conditions
Minimum reverse breakdown voltage	V _{BR}	20			V	I _R =250uA
			30		V	I _R =130uA
				40	V	I _R =20uA
Forward voltage	V _{F1}	0.34	0.375		V	I _F =0.1A
	V _{F2}	0.43	0.430	0.510	V	I _F =0.5A
	V _{F3}			0.62	V	I _F =1.0A
Reverse current	I _{R1}	75			uA	V _R =10V
	I _{R2}		20		uA	V _R =15V
	I _{R3}	250		10	uA	V _R =20V
	I _{R4}		130		uA	V _R =30V
	I _{R5}			20	uA	V _R =40V
Capacitance between terminals	C _T			170	pF	V _R =1V, f=1.0MHz
Reverse recovery time	t _{rr}			4	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES B0520LW/B0530W/B0540W

FIG. 1- FORWARD CURRENT DERATING CURVE

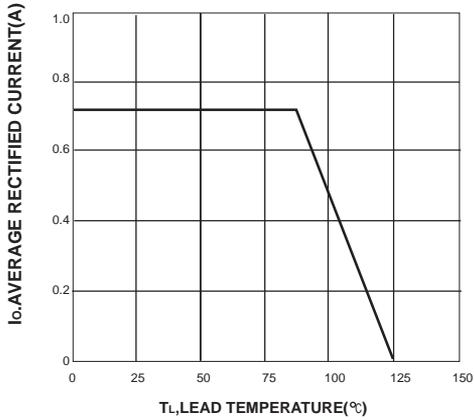


FIG. 2-TYPICAL FORWARD CHARACTERISTIC

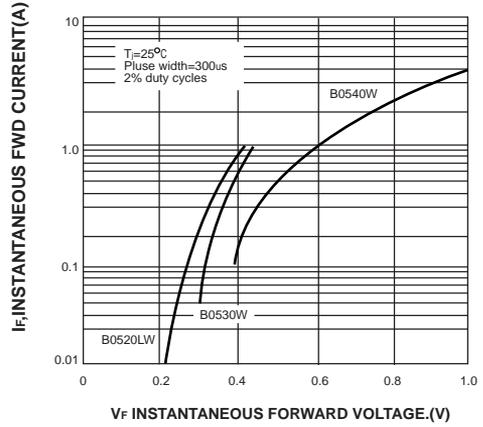
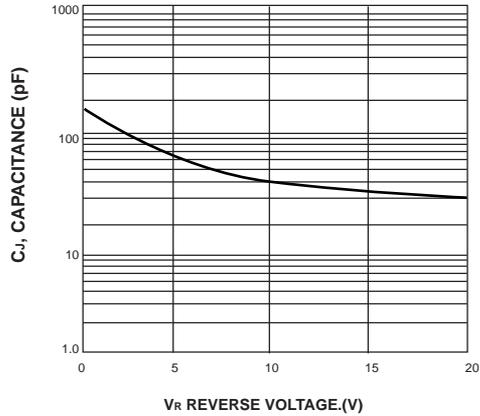


FIG. 3-TYP. JUNCTION CAPACITANCE VS REVERSE VOLTAGE



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 [Starsea](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MA4E2508M-1112](#) [MBR10100CT-BP](#) [MBR1545CT](#) [MMBD301M3T5G](#) [GS1JE-TP](#) [RB160M-50TR](#) [BAS 3010S-02LRH E6327](#)
[BAT 54-02LRH E6327](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#)
[SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SK310-T](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#)
[MA4E2501L-1290](#) [MBRB30H30CT-1G](#) [BAS 70-02L E6327](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [SB10015M-TL-E](#) [SB1003M3-TL-E](#) [SK32A-](#)
[TP](#) [SK33B-TP](#) [SK35A-TP](#) [SK38B-LTP](#) [SK38B-TP](#) [NRVBM120LT1G](#) [NTE505](#) [NTSB30U100CT-1G](#) [VS-6CWQ10FNHM3](#)
[CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA140-HF](#) [ACDBA2100-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#)
[CDBQC0530L-HF](#) [BAT54-13-F](#) [ACDBA340-HF](#)