

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-123 Plastic-Encapsulate Diodes

B0520LW/B0530W/B0540W

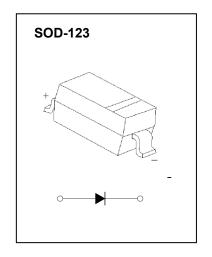
SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version

MARKING: B0520LW:SD

B0530W: SE B0540W: SF



Maximum Ratings @Ta=25℃

Parameter	Symbol	B0520LW	B0530W	B0540W	Unit
Peak repetitive peak reverse voltage	V_{RRM}				
Working peak reverse voltage	V_{RWM}	20	30	40	V
DC blocking voltage	V_R				
RMS reverse voltage reverse voltage	V _{R(RMS)}	14	21	28	V
Average rectified output Current	Ιο		Α		
Forward current surge peak	I _{FSM}		Α		
Power dissipation	P _D		mW		
Thermal resistance junction to ambient	R _{θJA}		°C/W		
Junction temperature	Tj		°C		
Storage temperature	T _{STG}		°C		
Voltage rate of change	dv/dt		V/µS		

Electrical Characteristics @Ta=25℃

Parameter	Symbol	B0520LW	B0530W	B0540W	Unit	Conditions
Minimum reverse breakdown voltage	V _(BR)	20			V	I _R =250μA
			30			I _R =200μA
				40		I _R =20μA
Forward voltage	V _{F1}	0.330	0.375			I _F =0.1A
	V _{F2}	0.385	0.430	0.510	V	I _F =0.5A
	V _{F3}			0.62		I _F =1A
Reverse current	I _{R1}	75				V _R =10V
	I _{R2}		20		μA	V _R =15V
Reverse current	I _{R3}	250		10		V _R =20V
	I _{R4}		130		μA	V _R =30V
	I _{R5}			20		V _R =40V
Capacitance between terminals	Ст			170	pF	V _R =0,f=1MHz

Typical Characteristics

B0520LW

