

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

B0520WS/B0530WS/B0540WS

SCHOTTKY BARRIER DIODE

FEATURES

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

MARKING: B0520WS: SD

B0530WS: SE B0540WS: SF

Maximum Ratings @Ta=25℃

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Parameter	Symbol	B0520WS	B0530WS	B0540WS	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 (DC)	V _{R(RMS)}	14	21	28	V
Average rectified output current	Io		Α		
Forward current surge peak	I _{FSM}		Α		
Power dissipation	P _D	200			mW
Thermal resistance junction to ambient	$R_{\theta JA}$		°C/W		
Junction temperature	Tj		$^{\circ}$		
Storage temperature	T _{STG}		°C		
Voltage rate of change	dv/dt		V/µs		

Electrical Characteristics @Ta=25℃

Parameter	Symbol	B0520WS	B0530WS	B0540WS	Unit	Conditions
	V _(BR)	20			V	I _R =250μA
Minimum reverse b- reakdown voltage			30			I _R =500μA
Teakuowii voitage				40		I _R =20μA
	V _{F1}	0.33	0.36			I _F =0.1A
Forward voltage	V _{F2}	0.39	0.45	0.510	V	I _F =0.5A
	V _{F3}			0.62		I _F =1A
Reverse current	I _{R1}	75				V _R =10V
Reverse current	I _{R2}		80		μΑ	V _R =15V
	I _{R3}	250	100	10		V _R =20V
Reverse current	I _{R4}		500		μΑ	V _R =30V
	I _{R5}			20		V _R =40V
Capacitance between terminals	Ст	170	170	170	pF	V _R =0,f=1MHz

Typical Characteristics

B0540WS







