

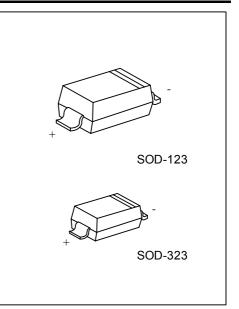
MBR0530

DIODE

SCHOTTKY RECTIFIER

FEATURES

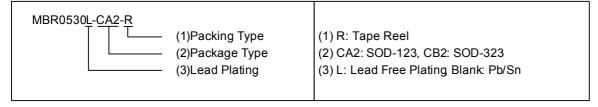
- * For surface mounted applications
- * Low forward voltage drop (V_F=0.37V Typ. at 0.1A)
- * Guard ring for transient and ESD protection



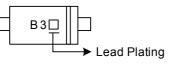
*Pb-free plating product number: MBR0530L

ORDERING INFORMATION

Order Number		Daakaga	Docking	
Normal	Lead Free Plating	Package	Packing	
MBR0530-CA2-R	MBR0530L-CA2-R	SOD-123	Tape Reel	
MBR0530-CB2-R	MBR0530L-CB2-R	SOD-323	Tape Reel	



MARKING



■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum DC Blocking Voltage	V _R	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
Maximum RMS Reverse Voltage	V _{R(RMS)}	21	V
Maximum Voltage Rate of Change (Rated V _R)	dv/dt	1000	V/µs
Average Rectified Forward Current	I _{OUT}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	5.5	А
Power Dissipation	PD	410	mW
Storage Temperature	T _{STG}	-65 ~ +150	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction to Ambient		244	/W

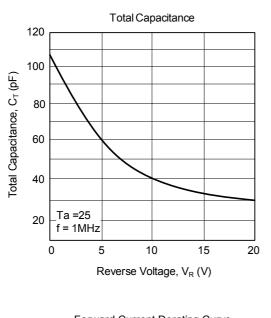
■ ELECTRICAL CHARACTERISTICS (T_A=25 , unless otherwise specified)

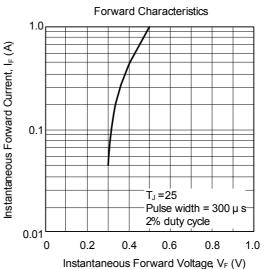
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Reverse Breakdown Voltage	BV _R	I _R =130μΑ	30			V	
Forward Voltage Drop	V _{F1}	I _F =0.1A			0.375	V	
	V _{F2}	I _F =0.5A			0.430	v	
Reverse Leakage Current	I _{R1}	V _R =15V			20		
	I _{R2}	V _R =30V			130	μA	
Total Capacitance	Ст	V _R =1V, f=1MHz			170	pF	
Typical Reverse Recovery Time	t _{RR}	$I_F=I_R=10$ mA, $R_L=100\Omega$, recover to 0.1 x I_R			4	ns	

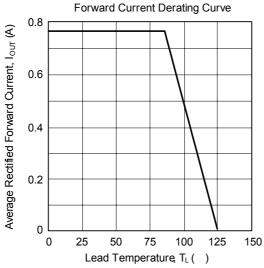


MBR0530

TYPICAL CHARACTERISTICS







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