



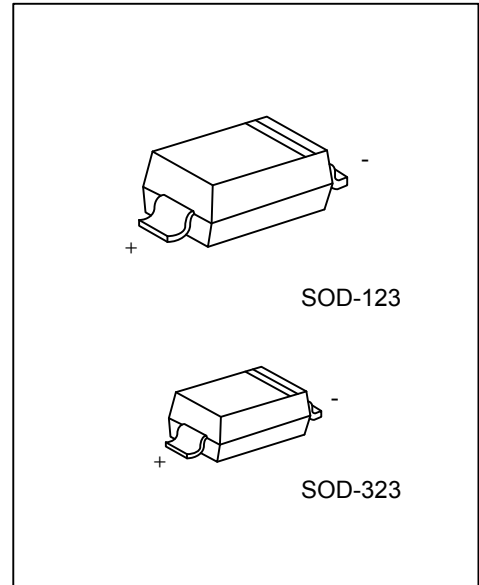
MBR0530

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

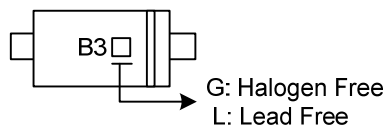


■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
MBR0530L-CA2-R	MBR0530G-CA2-R	SOD-123	Tape Reel
MBR0530L-CB2-R	MBR0530G-CB2-R	SOD-323	Tape Reel

MBR0530L-CA2-R (1) Packing Type (2) Package Type (3) Lead Free	(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323 (3) G: Halogen Free, L: Lead Free
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■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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/ μ s
Average Rectified Forward Current	I_{OUT}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	5.5	A
Power Dissipation	P_D	410	mW
Storage Temperature	T_{STG}	-65 ~ +150	°C

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.

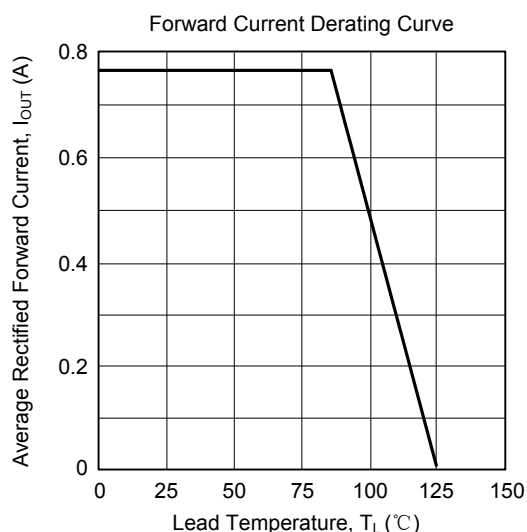
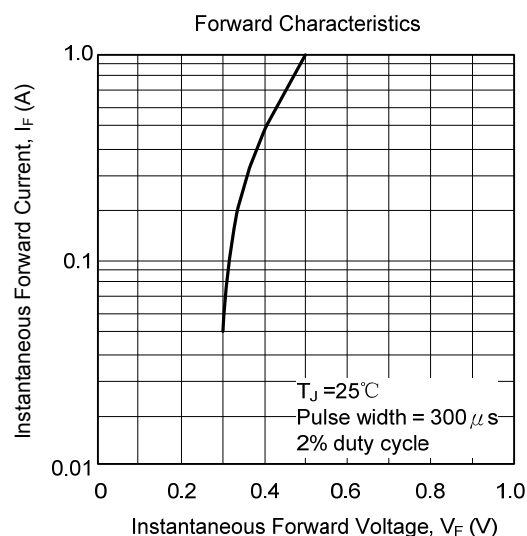
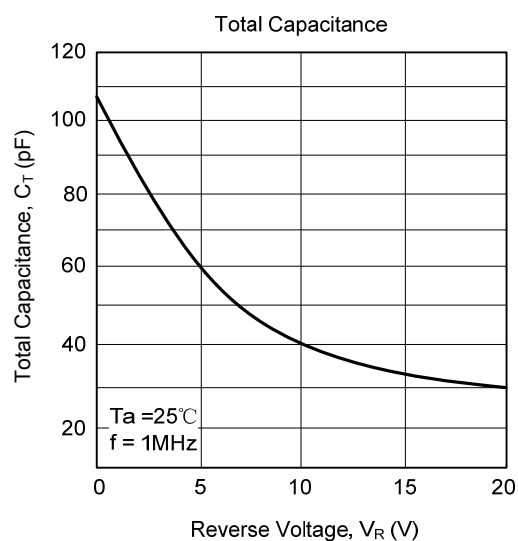
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	244	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	BV_R	$I_R=130\mu A$	30			V
Forward Voltage Drop	V_{F1}	$I_F=0.1A$			0.375	V
	V_{F2}	$I_F=0.5A$			0.430	
Reverse Leakage Current	I_{R1}	$V_R=15V$			20	μA
	I_{R2}	$V_R=30V$			130	
Total Capacitance	C_T	$V_R=1V, f=1MHz$			170	pF
Typical Reverse Recovery Time	t_{RR}	$I_F=I_R=10mA, R_L=100\Omega$, recover to $0.1 \times I_R$			4	ns

■ TYPICAL CHARACTERISTICS



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