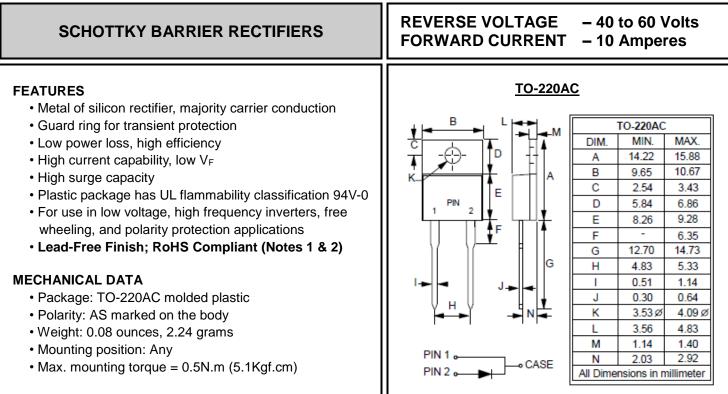


LITE-ON SEMICONDUCTOR

MBR1040 - MBR1060(LS)

A Product Line of Diodes Incorporated



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS		SYMBOL	MBR1040	MBR1060	UNIT
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	40	60	V
Maximum RMS Voltage		V _{RMS}	28	42	V
Maximum DC Blocking Voltage		V _{DC}	40	60	V
Maximum Average Forward Rectified Current (See Fig.1)	@T _c = 125°C	I _(AV)	10		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150		A
Voltage Rate of Change (Rated V_R)		dv/dt	10000		V/us
Maximum Forward Voltage		VF	0.84 0.57	0.95 0.70	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _J = 25°C @ T _J = 125°C	I _R	0.02 15	0.02 25	mA
Typical Thermal Resistance (Note 3)		R _{eJC}	2.5		°C/W
Typical Junction Capacitance (Note 4)		CJ	400		pF
Operating Temperature Range		TJ	-55 to +150		°C
Storage Temperature Range		T _{STG}	-55 to +175		°C

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Thermal Resistance Junction to Case.

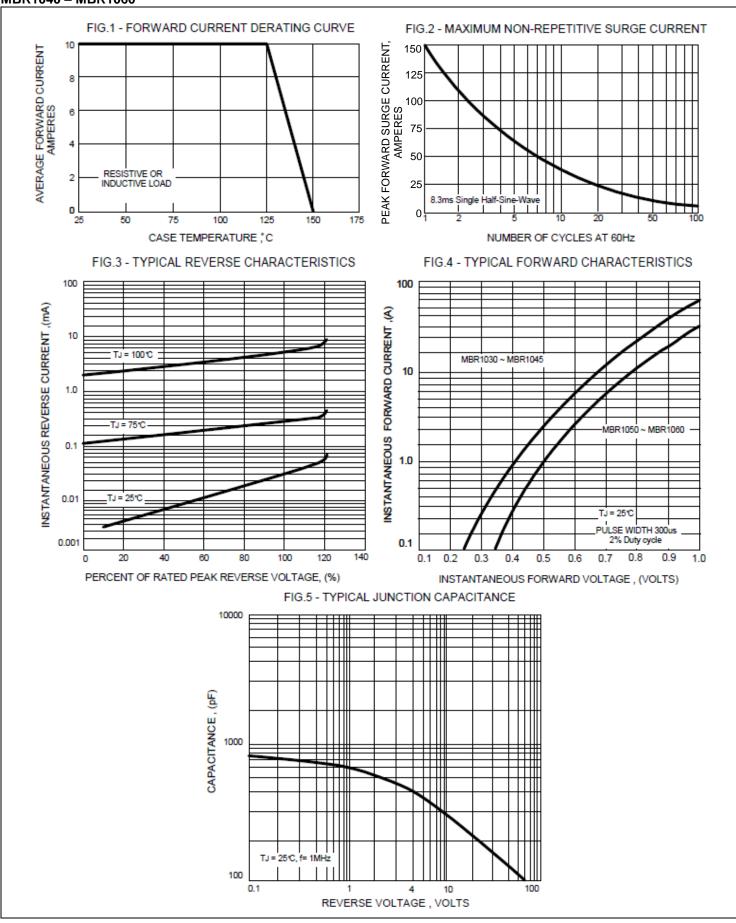
4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RATING AND CHARACTERISTIC CURVES MBR1040 – MBR1060

A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR



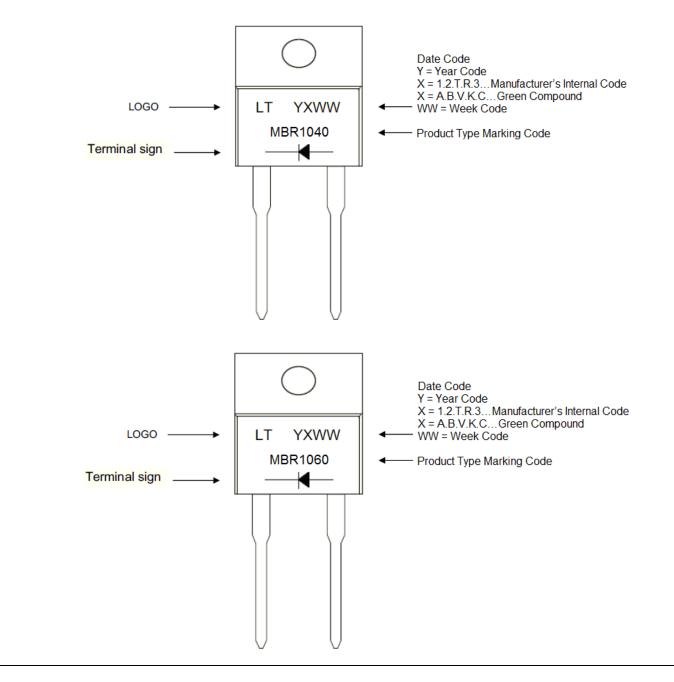


LITE-ON SEMICONDUCTOR

Ordering Information:

Part Number		Dookogo	Packing	
Lead Free	Green	Package	Qty.	Carrier
MBR1040-LS	NA	TO-220AC	50 pcs	Tube
MBR1060-LS	NA	TO-220AC	50 pcs	Tube

Marking Information:





LITE-ON SEMICONDUCTOR

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