# LITE ON CONDUCTOR SEMICONDUCTOR

#### SURFACE MOUNT REVERSE VOLTAGE - 400 to 200 Volts SUPER FAST RECTIFIERS FORWARD CURRENT - 1.0 Ampere **FEATURES** SMB • Glass passivated chip • Super fast switching for high efficiency • For surface mounted applications SMB • Low forward voltage drop and high current capability MIN. MAX. DIM. • Low reverse leakage current 4.06 4.57 А • Plastic material has UL flammability classification в 3.30 3.94 94V-0 С 1.96 2.21 D 0.15 0.31 Е 5.21 5.59 F 0.05 0.20 **MECHANICAL DATA** G 2.01 2.50 • Case : Molded plastic н 0.76 1.52 • Polarity : Color band denotes cathode All Dimensions in millimeter • Weight: 0.003 ounces, 0.093 grams • Marking : U1GB , U1JB

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^\circ$ C ambient temperature unless otherwise specified.

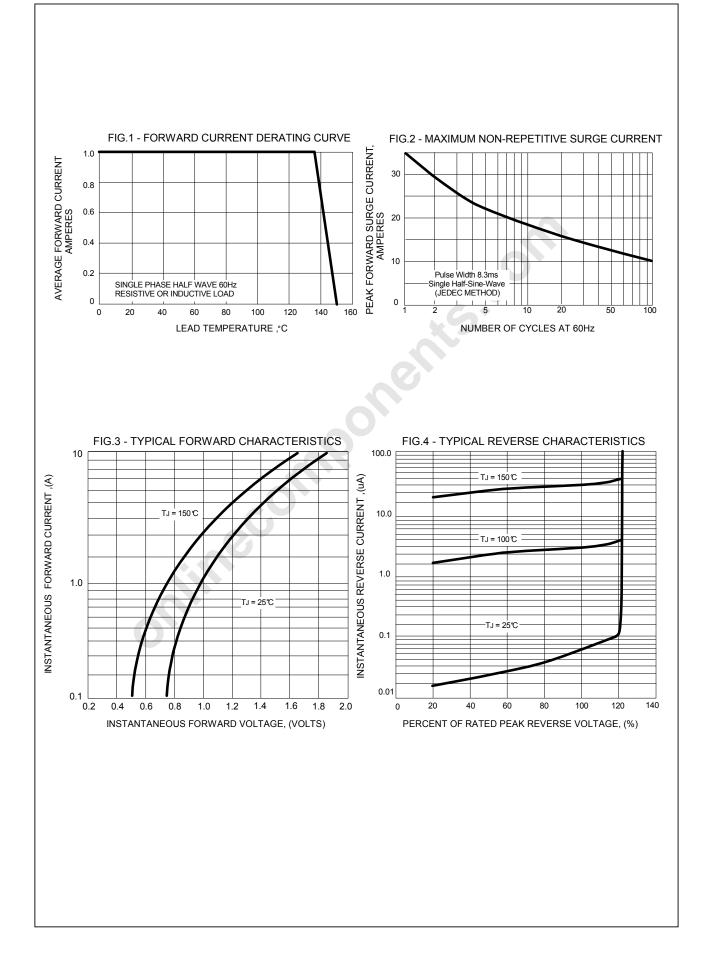
CHARACTERISTICS	SYMBOL	MURS140	ML	IRS160	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400		600	V
Maximum RMS Voltage	VRMS	280		420	V
Maximum DC Blocking Voltage	VDC	400		600	V
Maximum Average Forward Rectified Current @TL =135°C	I(AV)	1.0			А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	Іғѕм	35			A
Maximum forward Voltage at 1.0A DC	VF	1.25			V
Maximum DC Reverse Current@TJ =25°Cat Rated DC Blocking Voltage@TJ =150°C	lr	5.0 150			uA
Maximum Reverse Recovery Time (Note 1)	Trr	50			ns
Typical Junction Capacitance Note 2)	Сл	10		pF	
Typical Thermal Resistance (Note 3)	Rejl	15		°C/W	
Operating Temperature Range	TJ	-55 to +150			°C
Storage Temperature Range	Tstg	-55 to +175			°C

NOTES : 1. Reverse Recovery Test Conditions :IF=0.5A,IR=1.0A,IRR=0.25A. 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance junction to Lead.

REV. 2, Sep-2010, KSGB08

### RATING AND CHARACTERISTIC CURVES Components.com MURS140 thru MURS160



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