



A Product Line of Diodes Incorporated

INTE-ON SEMICONDUCTOR MURS360(LS)

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 600 Volts FORWARD CURRENT - 3.0 Amperes

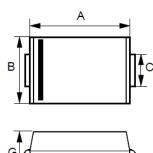
FEATURES

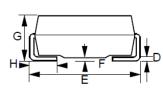
- · Glass passivated chip
- · Super fast switching for high efficiency
- · For surface mounted applications
- · Low forward voltage drop and high current capability
- Low reverse leakage current
- Qualified according to JEDEC
- Plastic material has UL flammability classification 94V-0
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- · Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- · Polarity: Color band denotes cathode
- Weight: 0.01 ounces, 0.249 grams (Approximate)
- · Marking Code: U3J

SMC





SMC					
DIM.	MIN.	MAX.			
Α	6.60	7.11			
В	5.59	6.22			
O	2.92	3.18			
D	0.15	0.31			
Е	7.75	8.13			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

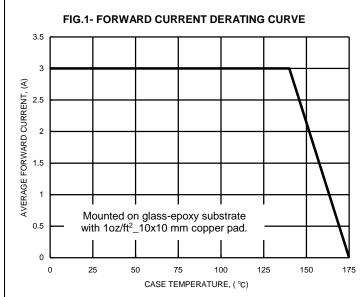
CHARACTERISTICS	SYMBOL	MURS360		UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	600		V
Maximum DC Blocking Voltage	VDC	600		Α
Maximum Average Forward Rectified Current @Tc=140°C	lav	3.0		Α
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	100		Α
Maximum Forward Voltage at 3.0A DC	VF	1.25		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=150°C	lR	3.0 150		uA
Maximum Reverse Recovery time (IF =0.5A , IR=1.0A , IRR=0.25 A)	t _{rr}	50		ns
Single pulse avalanche energy @15mH	Eas	10.8		mJ
Typical Junction Capacitance (Note 4)	Cj	40		pF
Typical Thermal Resistance (Note 5, 6)	R⊝JC R⊝JL R⊝JA	10 16 48		°C/W
Operating Junction Temperature Range	Tj	-55 to +175		°C
Storage Temperature Range	Tstg	-55 to +175		°C
Note:			REV5, Oct-2021, KSG	C07

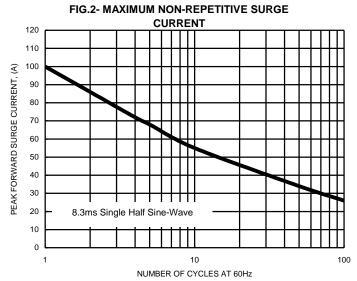
Note:

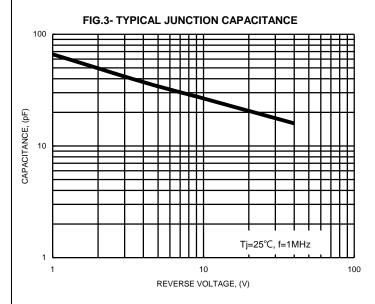
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC...
- 5. Thermal Resistance Junction to Case, Lead and Ambient.
- 6. Unit mounted on glass epoxy substrate 1oz/ft, 10 mmx10 mm copper pad.

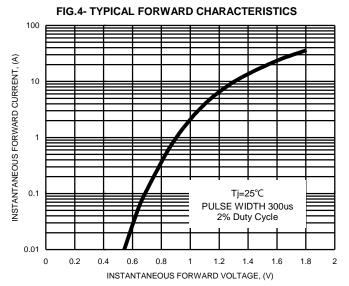


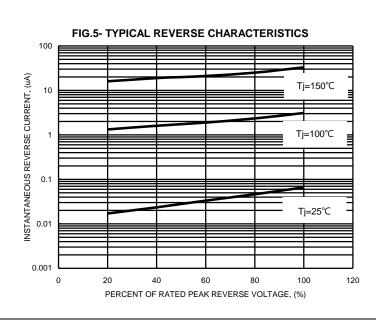
RATING AND CHARACTERISTIC CURVES MURS360









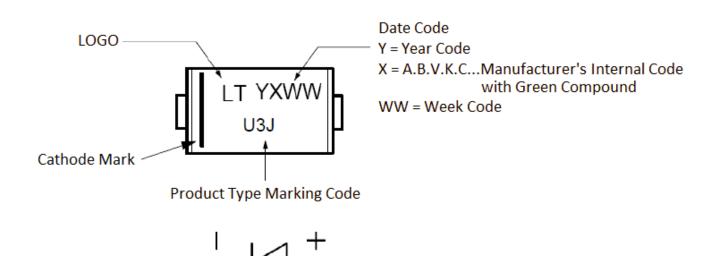




Ordering Information:

Part Number	Package	Packing		
		Qty.	Carrier	
MURS360	SMC	3000	Tape & Reel	

Marking Information:





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