RECTIFIER DIODES 30A 600V ULTRAFST RECOVERY RECTIFIER

DESCRIPTION

The MUR3060 and MUR3060S are available in TO-247 and TO-247S Packages.

MECHANICAL DATA

- Case: TO-247, TO-247S
- Solder Bath Temperature 275°C Maximum, 10s per JESD22-106

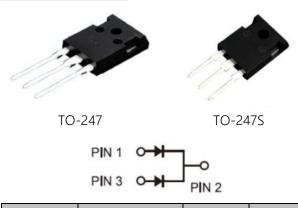
ORDERING INFORMATION

Package Type	Part Number	
TO-247	MUR3060	
TO-247S	MUR3060S	
Note	SPQ: 30pcs/Tube	
AiT provides all RoHS Compliant Products		

FEATURE

- High Speed Switching Capability
- High Current Capability
- High Forward Surge Capability
- Low Power Losses , High Efficiency
- For Use in Low Voltage, High Frequency Inverters

PIN DESCRIPTION



Pin#	1	2	3
Symbol	CATHODE	ANODE	

ABSOLUTE MAXIMUM RATINGS

 $T_A = 25$ °C, unless otherwise specified

7.		
V _{RRM} , Maximum Repetitive Peak Reverse Voltage		600V
V _{RMS} , Maximum RMS Voltage		420V
V _{DC} , Maximum DC Blocking Voltage		600V
I _O , Maximum Average Forward Rectified Current at	Per Leg	15A
T _C =120°C	Total	30A
I _{FSM} , Peak Forward Surge Current, 8.3ms Single Half Sir	250A	
on Rated Load		230A
T _J , Operating Junction Temperature Range		150°C
T _{STG} , Storage Temperature Range		-40°C ~ + 150°C
R _{OJC} , Typical Thermal Resistance		2°C/W
R _{OJA} , Typical Thermal Resistance		2°C/W

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

 $T_A = 25$ °C, unless otherwise specified

Parameter	Symbol	Conditions		Тур.	Max.	Unit	
Forward Voltage Drop V _F		IF=3A	T _A =25°C	0.92	-	V	
			T _A =125°C	0.73	-		
		V _F IF=5A	T _A =25°C	0.99	-		
	V _F		T _A =125°C	0.80	-		
		IF=15A	T _A =25°C	1.20	1.59		
			T _A =125°C	1	ı		
Maximum Reverse	I _R	V _R =600	T _A =25°C	0.03	1	^	
Current			V _R =600	T _A =125°C	11	ı	uA
Maximum Reverse	т	IF=0.5A, IR=1A, IRR=0.25A		T		F0	2,5
Recovery Time at	T_RR			-	50-	nS	

TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Maximum Forward Current Derating Curve

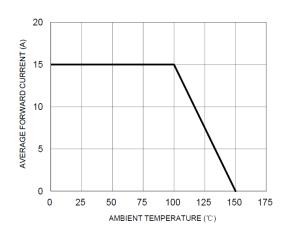


Fig 3. Typical Forward Characteristics Per Leg

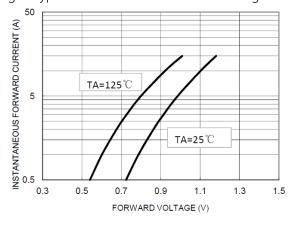


Fig 2. Maximum Non-Repetitive Peak Forward Surge Current Per leg

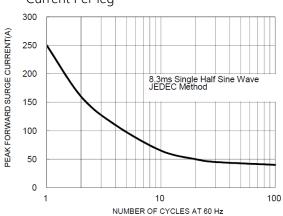
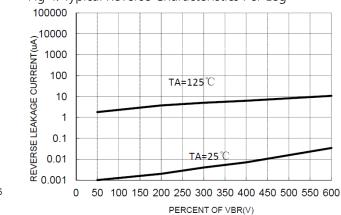


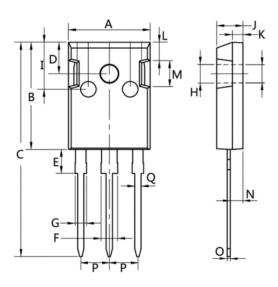
Fig 4. Typical Reverse Characteristics Per Leg



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PACKAGE INFORMATION

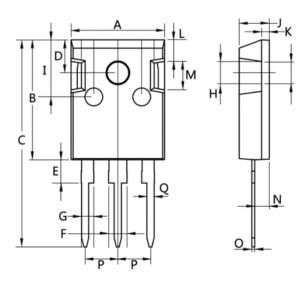
Dimension in TO-247 Package



Comple el	Millimeters (mm)		
Symbol	Min.	Max.	
А	15.000	16.000	
В	20.000	21.000	
С	41.000	42.000	
D	5.000	6.000	
Е	4.000	5.000	
F	2.500	3.500	
G	1.750	2.500	
Н	3.000	3.500	
	8.000	10.000	
J	4.900	5.100	
K	1.900	2.100	
L	3.500	4.000	
М	4.750	5.250	
N	2.000	3.000	
0	0.550	0.750	
Р	5.080 TYP.		
Q	1.200	1.300	

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Dimension in TO-247S-3 Package



Consolo al	Millimeters (mm)		
Symbol	Min.	Max.	
А	15.000	16.000	
В	20.000	21.000	
С	41.000	42.000	
D	5.000	6.000	
Е	4.000	5.000	
F	2.500	3.500	
G	1.750	2.500	
Н	3.000	3.500	
I	8.000	10.000	
J	4.900	5.100	
K	1.900	2.100	
L	3.500	4.000	
М	4.750	5.250	
N	2.000	3.000	
0	0.550	0.750	
Р	5.080 TYP.		
Q	1.200	1.300	

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