

Technical Data
Data Sheet M2616, Rev. -

MUR6030SW ULTRAFAST PLASTIC RECTIFIER

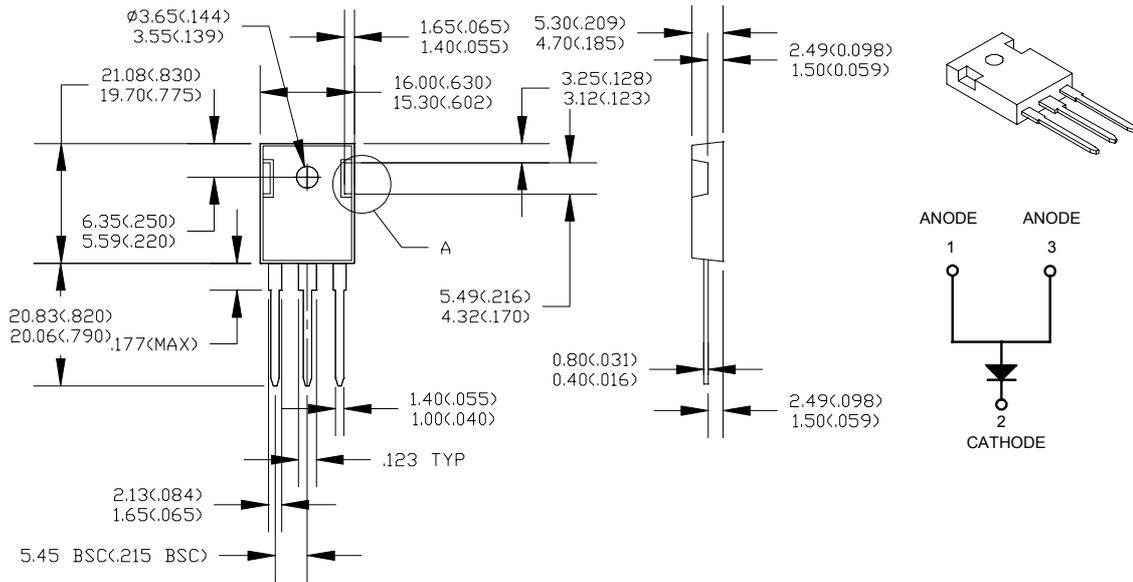
Features:

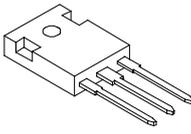
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

Mechanical Data:

- Case: Molded Plastic
- Terminals: Solder Leads, Solderable per MIL-STD-202, Method 208
- Weight: 6 grams (approx.)
- Marking: Type Number
- Mounting Position: Any

Mechanical Dimensions: In mm / Inches





A
OPTION C



$5.49 (.216)$
 $4.32 (.170)$

Option C is also available.
To order specifically the option C, please add suffix "-C" to the part number.
To order specifically the standard option, please add suffix "-S" to the part number.

If there is no suffix to the part number, the part could come with either option.

TO-247AD

Data Sheet M2616, Rev. –

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RRM}	-	300	V
Max. Average Forward	$I_{O(AV)}$	50Hz Sine wave	60	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	50Hz Half Sine wave	250	A

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_F	@ $I_F=60A$, Pulse, $T_J = 25^\circ C$	1.40	V
		@ $I_F =60A$, Pulse, $T_J = 125^\circ C$	1.30	
Max. Reverse Current	I_{R1}	@ $V_R = \text{rated } V_R$ $T_J = 25^\circ C$	15	μA
	I_{R2}	@ $V_R = \text{rated } V_R$ $T_J = 125^\circ C$	2	mA
Max. Reverse Recovery Time	t_{rr}	$I_F=500mA$, $I_R=1A$, and $I_{rm}=250mA$	60	ns

* Pulse width < 300 μs , duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-65 to +175	$^\circ C$
Max. Storage Temperature	T_{stg}	-	-65 to +175	$^\circ C$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	-	0.80	$^\circ C/W$
Transient thermal resistance at 1 μs	$Z_{\theta JC}$	-	0.002	$^\circ C/W$
Approximate Weight	wt	-	6	g
Case Style	TO-247AD			

Data Sheet M2616, Rev. -

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.