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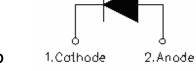
SDUR6060W ULTRAFAST PLASTIC RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm / Inches

<u>†</u> E -	F B	
<u>G</u> _	H A	M
	 K►	N

Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	19.81	20.32	0.780	0.800
B	20.80	21.46	0.819	0.845
C	15.75	16.26	0.610	0.640
D	3.55	3.65	0.140	0.144
E	4.32	5.49	0.170	0.216
F	5.4	6.2	0.212	0.244
G H	1.65	2.13 4.5	0.065	0.084 0.177
J	1.0	1.4	0.040	0.055
K	10.8	11.0	0.426	0.433
L	4.7	5.3	0.185	0.209
M	0.4	0.8	0.016	0.031
N	2.2	2.54	0.087	0.102

TO-247AC

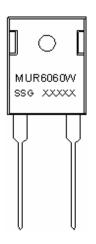
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

60 = Forward Current (60A) 60 = Reverse Voltage (600V)

W = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR6060W	TO-247AC	20 pag / tuba
MOROUGOV	(Pb-Free)	30 pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	600	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=75°C, rectangular wave form	60	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	600	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 70A, Pulse, T _J = 25°C	1.8	V
	V_{F2}	@ 70A, Pulse, T _J = 125°C	1.6	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	200	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	14	mA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

 $^{^*\,}$ Pulse width < 300 $\mu s,\,$ duty cycle < 2%

Thermal-Mechanical Specifications:

Characteris	stics	Symbol	Condition	Specification	Units
Max. Junction Tem	nperature	T_J	-	-55 to +150	°C
Max. Storage Tem	perature	T_{stg}	-	-55 to +150	°C
Maximum Resistance Junctio	Thermal on to Case	$R_{ hetaJC}$	DC operation	0.75	°C/W
Maximum Resistance Jur Ambient	Thermal nction to	$R_{ heta JA}$	DC operation	35	°C/W
Approximate Weigl	ht	wt	-	6	g
Case Style			TO-247AC	•	

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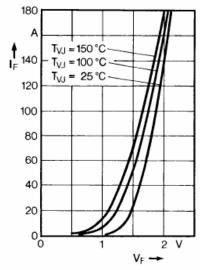


Fig. 1 Forward current versus voltage drop.

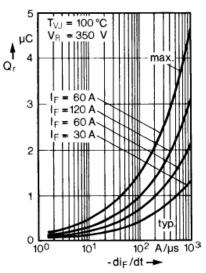


Fig. 2 Recovery charge versus -di_F/dt.

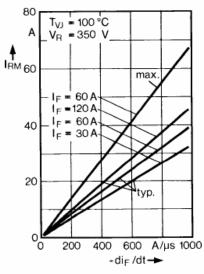


Fig. 3 Peak reverse current versus -di_c/dt.

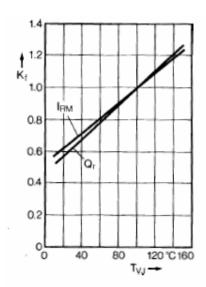


Fig. 4 Dynamic parameters versus junction temperature.

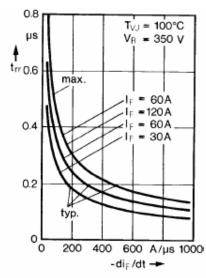


Fig. 5 Recovery time versus -di_/dt.

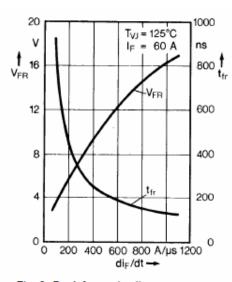


Fig. 6 Peak forward voltage versus di_/dt.

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