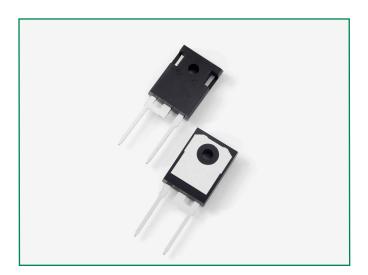


DUR6060W









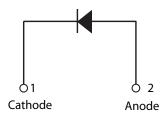
Description

Littelfuse DUR series Ultrafast Recovery Rectifier is designed to meet the general requirements of commercial applications by providing low Trr, high-temperature, low-leakage and low forward voltage drop products. It is suitable for output rectifier, free-wheeling or boost diode in high-frequency power switching application such as switch mode power supply and DC-DC converters.

Features

- Ultra-fast switching
- Low reverse leakage current
- High surge current capability
- Low forward voltage drop
- Single die in two-leaded TO-247AC package
- Pb-free E3 means 2nd level interconnect is Pbfree and the terminal finish material is tin(Sn) (IPC/ JEDEC J-STD-609A.01)

Circuit Diagram



Applications

- Output rectifiers in switch mode power supplies (SMPS) and DC to DC converters
- Free-wheeling diode or boost diode in converters and motor control circuits
- Anti-parallel diode for high frequency switching devices such as IGBT
- Uninterruptible Power Supplies (UPS)
- Inductive heating and melting
- Ultrasonic cleaners and welders

Maximum Ratings

Characteristics	Symbol	Conditions	Max.	Unit
Peak Inverse Voltage	V _{RWM}	-	600	V
Average Rectifierd Forward Current	I _{F(AV)}	Rated Vr, @T _C =70 °C,	60	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half sine pulse	600	А

Electrical Characteristics

Characteristics	Symbol	Conditions	Max.	Unit
Forward Voltage Drop ¹	V _{F1}	@60A, Pulse, T _J = 25 °C	2.0	V
Reverse Current ¹	I _{R1}	$@V_R = Rated V_R, T_J = 25 °C$	100	μΑ
Tieverse Current	I _{R2}	$@V_R = Rated V_R$, $T_J = 125 °C$	14	mA
Reverse Recovery Time	t _{m1}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

Footnote 1: Pulse Width < 300µs, Duty Cycle < 2%



Thermal-Mechanical Specifications

Characteristics	Symbol	Conditions	Specification	Unit
Junction Temperature	T	-	-55 to +150	°C
Storage Temperature	T _{stq}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{eJC}	DC operation	0.75	°C/W
Approximate Weight	wt	-	6.7	g
Case Style	-	TO-247AC	-	-

Figure 1: Typical Forward Characteristics

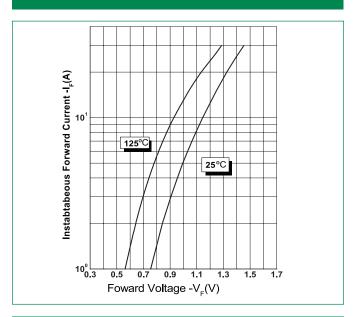


Figure 3: Typical Junction Capacitance

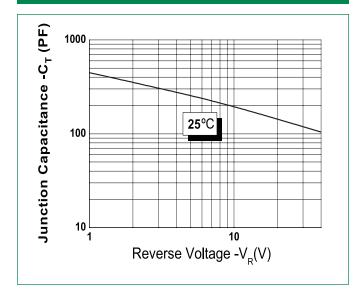
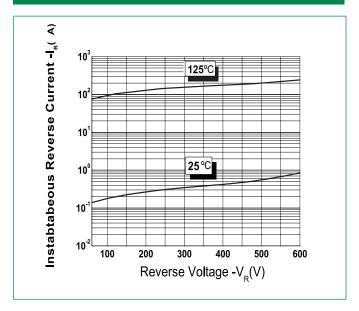
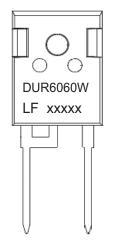


Figure 2: Typical Reverse Characteristics



Part Numbering and Marking System



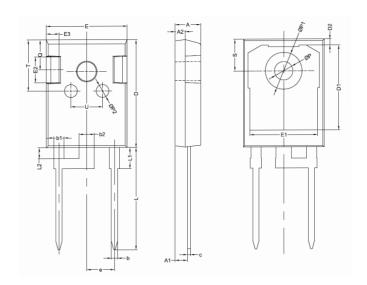
Where XXXXX is YYWWL

DUR = Device Type
60 = Forward Current (60A)
60 = Reverse Voltage (600V)
W = Configuration
LF = Littelfuse
YY = Year
WW = Week
L = Lot Number



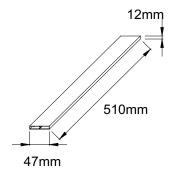
	Packing Options				
	Part Number	Marking	Packing Mode	M.O.Q	
ı	DUR6060W	DUR6060W	30 pcs/Tube	300	

Dimensions-Package TO-247AC



Symbol	Millimeters				
Syllibol	Min	Тур	Max		
А	4.80	5.00	5.20		
A1	2.21	2.41	2.61		
A2	1.90	2.00	2.10		
b	1.10	1.20	1.35		
b1	-	2.00	-		
b2	-	3.00	-		
С	0.55	0.60	0.75		
D	20.80	21.00	21.20		
D1	-	16.55	-		
D2	-	1.20	-		
Е	15.60	15.80	16.00		
E1	-	13.30	-		
E2	-	5.00	-		
E3	-	2.50	-		
е	-	5.44	-		
L	19.42	19.92	20.42		
L1	-	4.13	-		
L2	-	2.15	-		
Р	3.50	3.60	3.70		
P1	-	-	7.40		
P2	-	2.50	-		
Q	-	5.80			
S	6.05	6.15	6.25		
T	-	10.00	-		
U	-	6.20	-		

Tube Specification TO-247AC



单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)