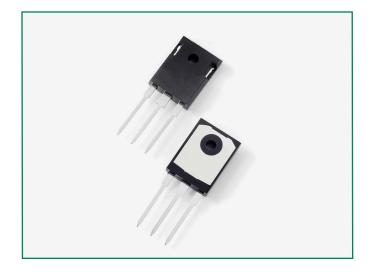
Ultrafast Recovery Rectifier DUR6040WT, 2x 30A, 400V, TO-247AD, Common Cathode



RoHS

(e3)

DUR6040WT



Description

Littelfuse DUR series Ultrafast Recovery Rectifier is designed to meet the general requirements of commercial applications by providing low Trr, high-temperature, lowleakage 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

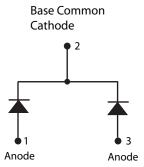
• Common Cathode configuration in TO-247AD package

 Pb-free E3 means 2nd level interconnect is Pbfree and the terminal finish material is tin(Sn) (IPC/ JEDEC J-STD-609A.01)

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

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Maximum Ratings

Characteristics	Cumphed	Conditions	Max	1 Junit
Characteristics	Symbol	Conditions	Max.	Unit
Peak Inverse Voltage	V _{RWM}	-	400	V
Average Rectifierd Forward Current (Per Device)	I _{F(AV)}	50% duty cycle @T _c =100 °C, rectangular wave form	60	А
Peak One Cycle Non- Repetitive Surge Current (Per Leg)	I _{FSM}	8.3 ms, half sine pulse	360	А

Electrical Characteristics

Characteristics	Symbol	Conditions	Max.	Unit
	V _{E1}	@30A, Pulse, T ₁ = 25 °C	1.41	V
Forward Voltage Drop (Per Leg) ¹	V _{F2}	@30A, Pulse, T _J = 125 °C	1.20	V
	V _{F3}	@30A, Pulse, T _j = 150 °C	1.13	V
Reverse Current (Per Leg) ¹	I _{R1}	$@V_{R} = Rated V_{R}, T_{J} = 25 °C$	5.0	μA
	I _{B2}	$@V_{R} = Rated V_{R}, T_{J} = 125 \text{ °C}$	1.0	mA
Reverse Recovery Time	t _{rr1}	I _F =500mA, I _R =1A,and I _{rm} =250mA	45	ns

Footnote ¹: Pulse Width < 300 μ s, 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	0.95	°C/W
Approximate Weight	wt	-	6.28	g
Case Style	-	TO-247AD	-	-

Figure 1: Typical Forward Characteristics

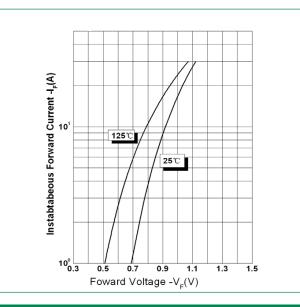


Figure 3: Typical Junction Capacitance

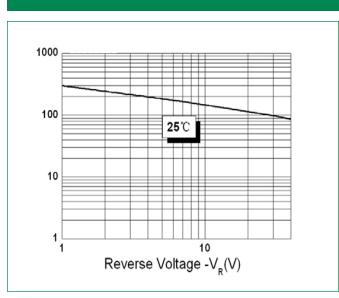
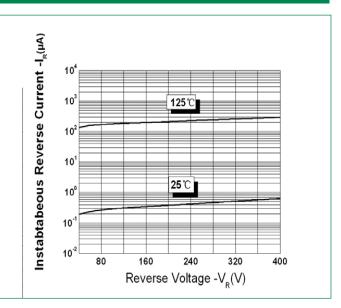


Figure 2: Typical Reverse Characteristics



Part Numbering and Marking System

DUR6040WT LF XXXXX

Where XXXXX is YYWWL

DUR = Device Type 60 40 WT LF

YΥ

L

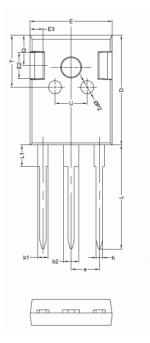
WW

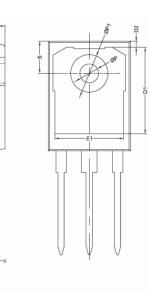
- = Forward Current (60A)
- = Reverse Voltage (400V)
- = Configuration = Littelfuse
- = Year
- = Week
- = Lot Number



Packing Options				
Part Number	Marking	Packing Mode	M.O.Q	
DUR6040WT	DUR6040WT	30 pcs/Tube	300	

Dimensions-Package TO-247AD

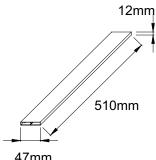




Symbol	Millimeters			
Symbol	Min	Max		
А	4.70	5.31		
A1	2.21	2.61*		
A2	1.50	2.49		
b	0.99	1.40		
b1	1.65	2.39		
b2	2.59	3.43		
С	0.38	0.89		
D	20.30*	21.46		
D1	13.08	-		
D2	0.51	1.35		
E	14.80*	16.26		
E1	13.46	-		
E2	4.32	5.49		
E3	1.45* 2.74			
е	5.461 BSC			
L	19.42*	20.85*		
L1	-	4.60*		
Р	3.35*	3.70*		
P1	-	7.40*		
Q	5.38	6.20		
S	5.83*	6.25*		

Footnote *: The spec. does not comply with JEDEC spec.

Tube Specification TO-247AD





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)