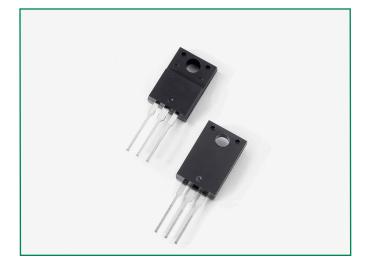
Ultrafast Recovery Rectifier DURF1040CT, 2x 5A, 400V, ITO-220AB, Common Cathode



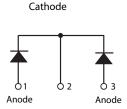
RoHS

e3

DURF1040CT



Circuit Diagram



Base Common

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
 - Pb-free E3 means 2nd
 level interconnect is
- High surge current capability
- Low forward voltage drop
- Common Cathode configuration in electrically

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)

isolated ITO-220AB

Pb-free and the terminal

finish material is tin(Sn)

(IPC/JEDEC J-STD-

package

609A.01)

- Inductive heating and melting
- Ultrasonic cleaners and welders

Maximum Ratings

Characteristics	Symbol	Conditions	Max.	Unit	
Peak Inverse Voltage	V _{BWM}	-	400	V	
Average Forward Current	lo _(AV)	50% duty cycle @T _c =112 °C, rectangular wave form	5 (Per Leg)	Δ	
			10 (Total Device)		
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half sine pulse	80	A	

Electrical Characteristics

Characteristics	Symbol	Conditions	Max.	Unit	
Forward Voltage Drop (Per Leg)	V _F	@I _F = 5A, Pulse, T _J = 25 °C	1.3	V	
Reverse Current	I _{R1}	$@V_{R} = Rated V_{R}, T_{J} = 25 \ ^{\circ}C$	30	- μΑ	
	I _{R2}	$@V_{_{R}} = Rated V_{_{R}}, T_{_{J}} = 125 \text{ °C}$	300		
Reverse Recovery Time	t _{rr1}	I _F =500mA, I _R =1A,and I _m =250mA	45	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 _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{euc}	DC operation	3.5	°C/W
Approximate Weight	wt	-	2.0	g
Case Style	_	ITO-220AB	-	-

Figure 1: Typical Forward Characteristics

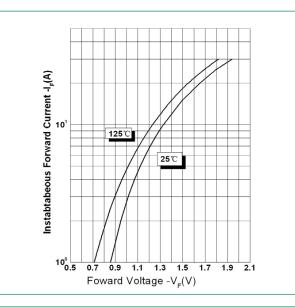


Figure 3: Typical Junction Capacitance

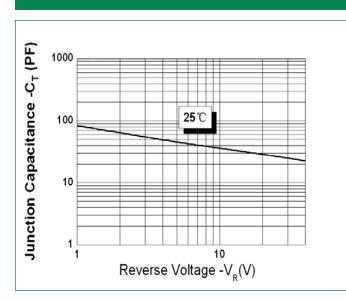
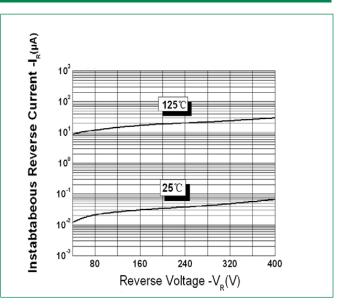
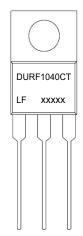


Figure 2: Typical Reverse Characteristics



Part Numbering and Marking System



*xxxxx is YYWWL

40

CT LF

YΥ

L

WW

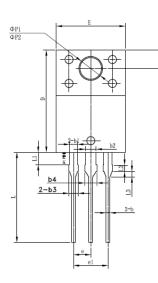
- DUR = Device Type F = Package type
- F = Package type 10 = Forward Curre
 - = Forward Current (10A)
 - = Reverse Voltage (400V) = Configuration
 - = Littelfuse
 - = Year
 - = Week
 - = Lot Number

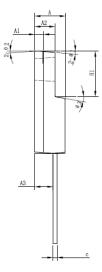


Packing Options				
Part Number	Marking	Packing Mode	M.O.Q	
DURF1040CT	DURF1040CT	50pcs / Tube	1000	

-

Dimensions-Package ITO-220AB

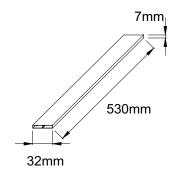






Symbol		Millimeters	
Symbol	Min	Тур	Max
А	4.30	4.50	4.70
A1	1.10	1.30	1.50
A2	2.80	3.00	3.20
A3	2.50	2.70	2.90
b	0.50	0.60	0.75
b1	1.10	1.20	1.35
b2	1.50	1.60	1.75
b3	1.20	1.30	1.45
b4	1.60	1.70	1.85
С	0.55	0.60	0.75
D	14.80	15.00	15.20
E	9.96	10.16	10.36
е		2.55	
e1		5.10	
H1	6.50	6.70	6.90
L	12.70	13.20	13.70
L1	1.60	1.80	2.00
L2	0.80	1.00	1.20
L3	0.60	0.80	1.00
øP1	3.30	3.50	3.70
øP2	2.99	3.19	3.39
Q	2.50	2.70	2.90
θ1		5°	
θ2		4°	
θ3		10°	
θ4		5°	
θ5		5°	

Tube Specification ITO-220AB



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>>Littelfuse(美国力特)