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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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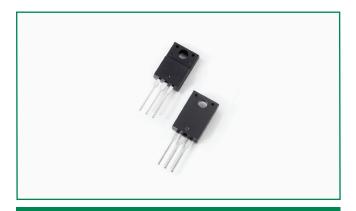


Schottky Barrier Rectifier DSTF3060C, 2x15A, 60V, ITO-220AB, Common Cathode

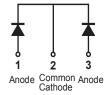
DSTF3060C







Pin out



Description

Littelfuse DST series Ultra Low V_F Schottky Barrier Rectifier is designed to meet the general requirements of commercial and industry applications by providing high temperature, low leakage and lower V_E products.

It is suitable for high frequency switching mode power supply, free-wheeling diodes and polarity protection diodes.

Features

- Ultra low forward voltage drop
- High frequency operation
- High junction temperature capability
- Guard ring for enhanced ruggedness and long term reliability
- Common cathode configuration in ITO-220AB package

Applications

- Switching mode power supply
- DC/DC converters
- Free-Wheeling diodes
- Polarity Protection Diodes

Maximum Ratings

Parameters	Symbol	Test Conditions	Max	Unit	
Peak Inverse Voltage	V _{RWM}	-	60	V	
Average Forward Current	I _{F(AV)}	50% duty cycle @T _c =60°C rectangular wave form	15 (per leg)		
Average Follward Current			30 (total device)		
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	170	А	

Electrical Characteristics

Parameters	Symbol	Symbol Test Conditions		Max	Unit	
	V _{F1}	@7.5A, Pulse, T _J = 25 °C	0.48	-		
Forward Valtaga Dran (par lag) *		@15A, Pulse, T _J = 25 °C	0.59	0.70	V	
Forward Voltage Drop (per leg) *	\/	@7.5A, Pulse, T _J = 125 °C	0.41	-	V	
	V _{F2}	@15A, Pulse, T _J = 125 °C	0.55	0.65		
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	0.024	1.2	mA	
neverse Current (per leg)	I _{R2}	$@V_R = rated V_R T_J = 125 °C$	14	45	1 IIIA	
Junction Capacitance (per leg)	C_{T}	C_{T}		-	pF	
RSM Isolation Voltage	RSM Isolation Voltage	Clip mounting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	-	4500		
$(t = 1.0 \text{ second}, R. H. < =30\%, T_A = 25 °C)$	V _{ISO}	Clip mounting, the epoxy body is inside the heatsink.	-	3500	V	
		Screw mounting, the epoxy body is inside the heatsink.	-	1500		

^{*} Pulse Width < 300µs, Duty Cycle <2%

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Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Junction Temperature	T _J		-55 to +150	°C
Storage Temperature	T _{stg}		-55 to +150	°C
Thermal Resistance Junction to Case (per leg)	R _{thJC}	DC operation	6.0	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

Figure 1: Typical Forward Characteristics

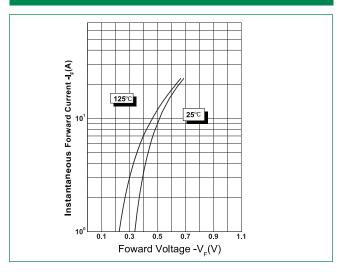


Figure 2: Typical Reverse Characteristics

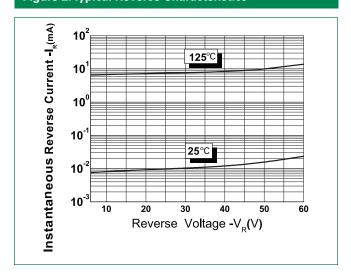
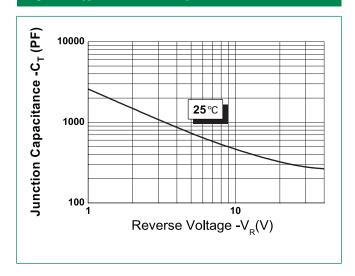
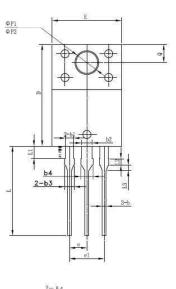


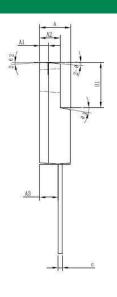
Figure 3: Typical Junction Capacitance



Schottky Barrier Rectifier DSTF3060C, 2x15A, 60V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB





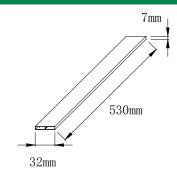


Symbol	Millimeters				
Зупроі	Min	Тур	Max		
Α	4.30	4.50	4.70		
A1	1.10	1.30	1.50		
A2	2.80	3.00	3.20		
А3	2.50	2.70	2.90		
b	0.50	0.60	0.75		
b1	1.10	1.20	1.35		
b2	1.50	1.60	1.75		
b3	1.20	1.30	1.45		
b4	1.60	1.70	1.85		
С	0.55	0.60	0.75		
D	14.80	15.00	15.20		
E	9.96	10.16	10.36		
e		2.55			
e1		5.10			
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°			
θ 2		4°			
θ 3		10°			
θ 4		5°			
θ 5		5°			

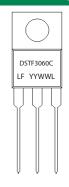
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
DSTF3060C	DSTF3060C	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



DST = Device Type
F = Package type
30 = Forward Current (30A)
60 = Reverse Voltage (60V)
C = Configuration
LF = Littelfuse
YY = Year
WW = Week
L = Lot Number