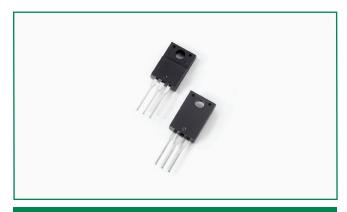
Schottky Barrier Rectifier DSTF30150C, 2x15A, 150V, ITO-220AB, Common Cathode

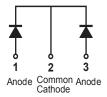
DSTF30150C







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
- 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}	-	150	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =50°C rectangular wave form	15 (per leg) 30 (total device)	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	200	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Тур	Max	Unit	
	V _{F1}	@5A, Pulse, T _J = 25 °C	0.66	-		
		@7.5A, Pulse, T _J = 25 °C	0.79	-	- 36 V	
Forward Voltage Drop (per leg) *		@15A, Pulse, T _J = 25 °C	1.16	1.36		
rorward voltage brop (per leg) "	V _{F2}	@5A, Pulse, T _J = 125 °C	0.56	-	V	
		@7.5A, Pulse, T _J = 125 °C	0.62	-		
		@15A, Pulse, T _J = 125 °C	0.74	0.79		
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	0.006	0.2	mA	
Tieverse Current (per leg)	I _{R2}	$@V_R = rated V_R T_J = 125 °C$	2.6	20		
Junction Capacitance (per leg)	C_{T}	$@V_R = 5V, T_C = 25 ^{\circ}C, _{fSI}G = 1MHz$	670	-	pF	
RSM Isolation Voltage	V _{ISO}	Clip mounting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	-	4500		
(t = 1.0 second, R. H. < =30%, $T_A = 25$ °C)		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%

Schottky Barrier Rectifier DSTF30150C, 2x15A, 150V, ITO-220AB, Common Cathode

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	4.5	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

Figure 1: Typical Forward Characteristics

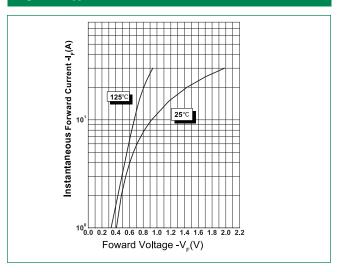


Figure 2: Typical Reverse Characteristics

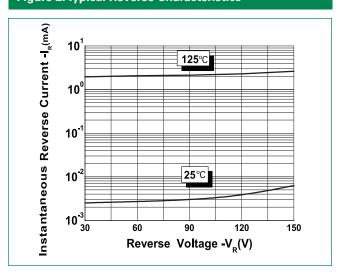
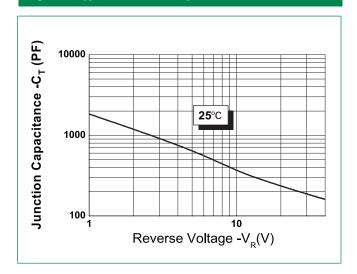
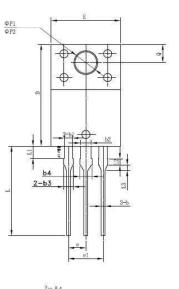


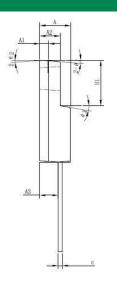
Figure 3: Typical Junction Capacitance



Schottky Barrier Rectifier DSTF30150C, 2x15A, 150V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB





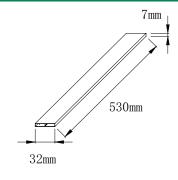


Symbol	Millimeters			
Syllibol	Min	Тур	Max	
Α	4.30	4.50	4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
А3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.55	0.60	0.75	
D	14.80	15.00	15.20	
E	9.96	10.16	10.36	
е		2.55		
e1		5.10		
H1	6.50	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°		
θ 4		5°		
θ 5		5°		

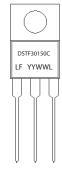
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
DSTF30150C	DSTF30150C	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



= Device Type = Package type = Forward Current (30A) = Reverse Voltage (150V) F 30 150 C LF YY WW

= Configuration = Littelfuse = Year = Week = Lot Number

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