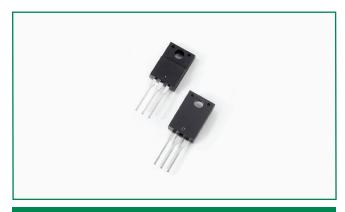
Schottky Barrier Rectifier DSTF2045C, 2x10A, 45V, ITO-220AB, Common Cathode

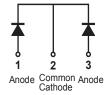
DSTF2045C







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}	-	45	V
Average Forward Current	d Current I _{F(AV)} 50% duty cycle @T _C =80°C rectangular wave form	10 (per leg)	^	
Average Follward Current		rectangular wave form	20 (total device)	
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	150	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit
Forward Voltage Drop (per leg) *	V _{F1}	@10A, Pulse, T _J = 25 °C	0.58	\/
Forward voltage Drop (per leg) "	V _{F2}	@10A, Pulse, T _J = 125 °C	0.52	V
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	2	mA
	I _{B2}	$@V_R = rated V_R T_J = 125 °C$	30	IIIA

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

Schottky Barrier Rectifier DSTF2045C, 2x10A, 45V, 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	6.0	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

Figure 1: Typical Forward Characteristics

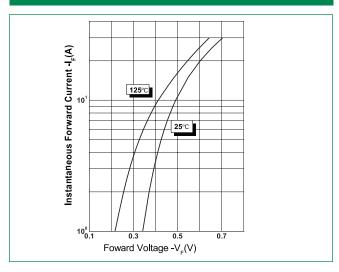


Figure 2: Typical Reverse Characteristics

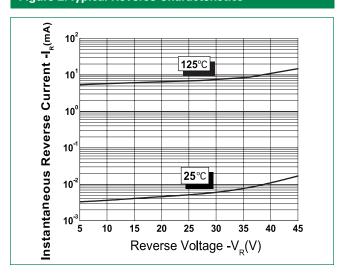
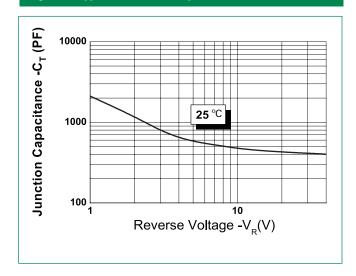
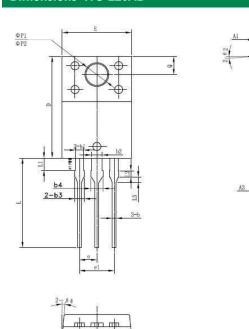


Figure 3: Typical Junction Capacitance



Schottky Barrier Rectifier DSTF2045C, 2x10A, 45V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB

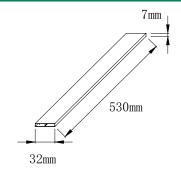




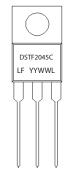
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
DSTF2045C	DSTF2045C	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



= Device Type = Package type = Forward Current (20A) = Reverse Voltage (45V) 20 45 C LF YY WW = Configuration

= Year = Week = Lot Number

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