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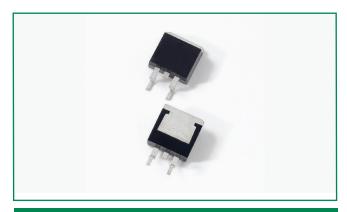


Schottky Barrier Rectifier DSTB30200C, 2x15A, 200V, TO-263, Common Cathode

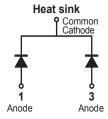
DSTB30200C







Pin out



Description

Littelfuse DST series Ultra Low $V_{\rm F}$ Schottky Barrier Rectifier is designed to meet the general requirements of commercial and industry applications by providing high temperature, low leakage and lower $V_{\rm F}$ 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 TO-263 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}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _c =100°C rectangular wave form	15 (per leg)	A
			30 (total device)	
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	Max	Unit	
Forward Voltage Drop (per leg) *	V _{F1}	@15A, Pulse, T _J = 25 °C	1.10	\/	
	V _{F2}	@15A, Pulse, T _J = 125 °C	0.72	ľ	
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	0.16	mA	
	I _{R2}	$@V_R = rated V_R T_J = 125 °C$	12		

^{*} 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
Typical Thermal Resistance Junction to Case(per leg)	R _{thJC}	DC operation	2.0	°C/W
Approximate Weight	wt		1.85	g
Case Style		D ² PAK (TO-263)		

Figure 1: Typical Forward Characteristics

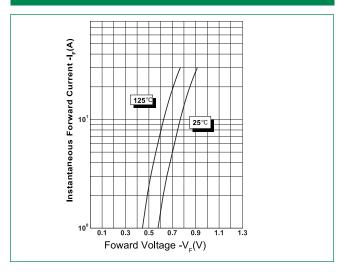


Figure 2: Typical Reverse Characteristics

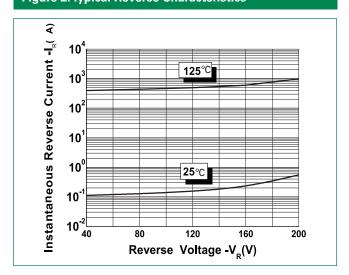
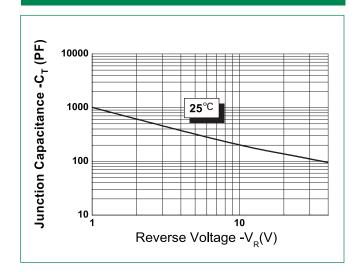
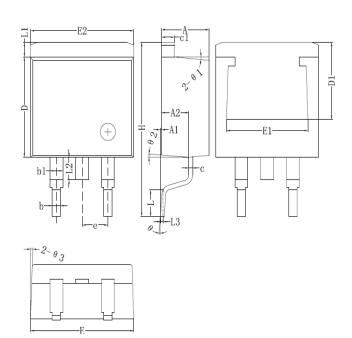


Figure 3: Typical Junction Capacitance



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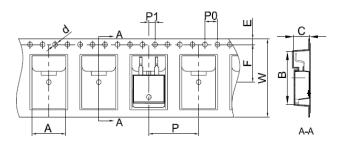
Dimensions-D²PAK(TO-263)



Symbol	Millimeters		
Зуппоот	Min	Max	
Α	3.56	4.83	
A1	0.51	1.40	
A2	2.03	2.92	
b	0.38	1.02	
b1	1.14	1.78	
С	0.31*	0.61	
D	14.22	16.51	
D1	8.38	9.15*	
E	9.65	10.67	
е	2.54	-	
e1	4.98*	-	
H1	5.84	6.86	
L	12.70	14.73	
L1	-	6.35	
øΡ	3.53	4.09	
Q	2.54	3.43	

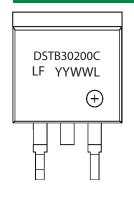
Footnote *: The spec. does not comply with JEDEC spec.

Carrier Tape & Reel Specification



Symbol	Millimeters		
Syrribor	Min	Max	
Α	10.70	10.90	
В	16.03	16.23	
С	5.11	5.31	
d	ø1.45	ø1.65	
E	1.65	1.85	
F	11.40	11.60	
P0	3.90	4.10	
P	15.90	16.10	
P1	1.90	2.10	
W	23.90	24.30	

Part Numbering and Marking System



DST = Device Type
B = Package type
30 = Forward Current (30A)
200 = Reverse Voltage (200V)
C = Configuration
LF = Littelfuse
YY = Year

YY = Year WW = Week L = Lot Number

Packing Options

Part Number	Marking	Packing Mode	M.O.Q
DSTB30200C	DSTB30200C	800pcs / reel	800