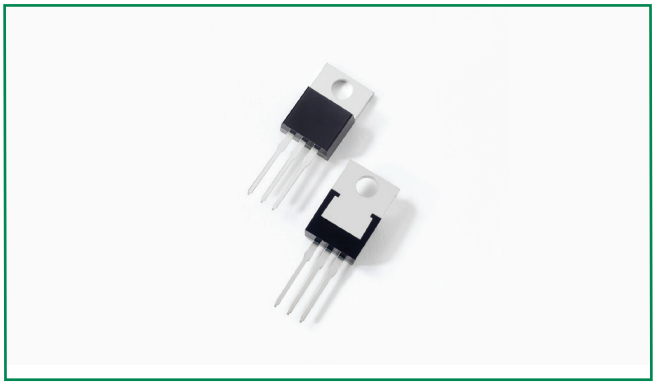
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Schottky Barrier Rectifier
DST2060C, 2x 10A, 60V, TO-220AB, Common Cathode

DST2060C

RoHS



Description

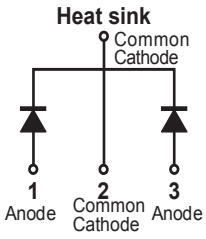
Littelfuse DST series Ultra Low V_F Schottky Barrier Rectifier is designed to meet the general requirements of commercial and industry applications by providing high temperature, low leakage and lower V_F products.

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-220AB package

Pin out



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 =125°C rectangular wave form	10 (per leg)	A
			20 (total device)	
Peak One Cycle Non-Repetitive Surge Current (per leg)	I_{FSM}	8.3 ms, half Sine pulse	150	A

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit
Forward Voltage Drop (per leg) *	V_{F1}	@10A, Pulse, T_J = 25 °C	0.65	V
	V_{F2}	@10A, Pulse, T_J = 125 °C	0.59	
Reverse Current (per leg) *	I_{R1}	@V_R = rated V_R T_J = 25 °C	0.85	mA
	I_{R2}	@V_R = rated V_R T_J = 125 °C	40	

* Pulse Width < 300µs, Duty Cycle <2%

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Schottky Barrier Rectifier
DST2060C, 2x 10A, 60V, TO-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	3.0	°C/W
Approximate Weight	wt		2	g
Case Style	TO-220AB			

Figure 1: Typical Forward Characteristics

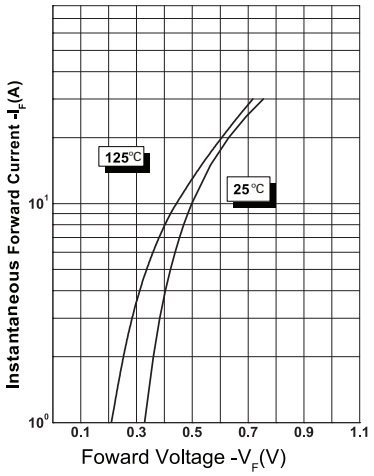


Figure 2: Typical Reverse Characteristics

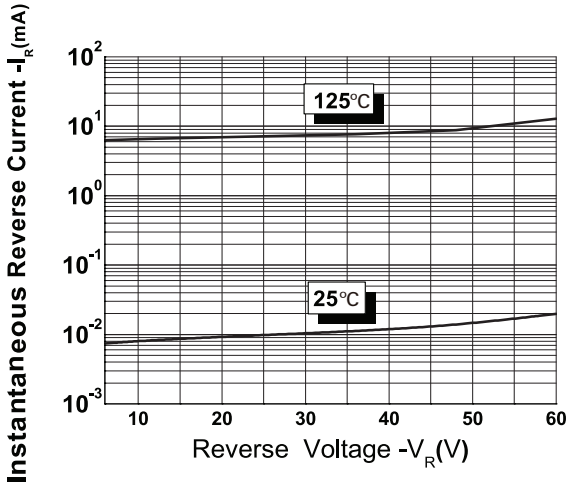
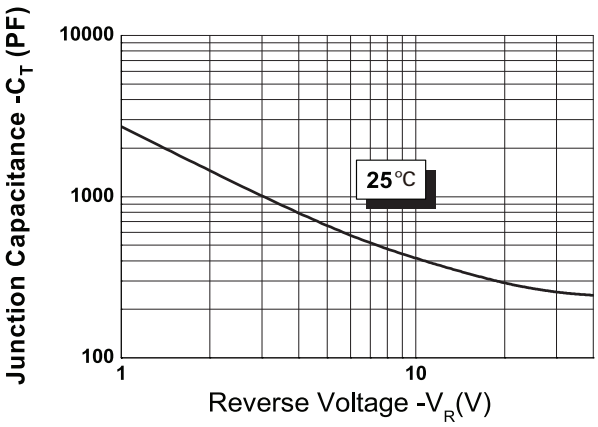


Figure 3: Typical Junction Capacitance

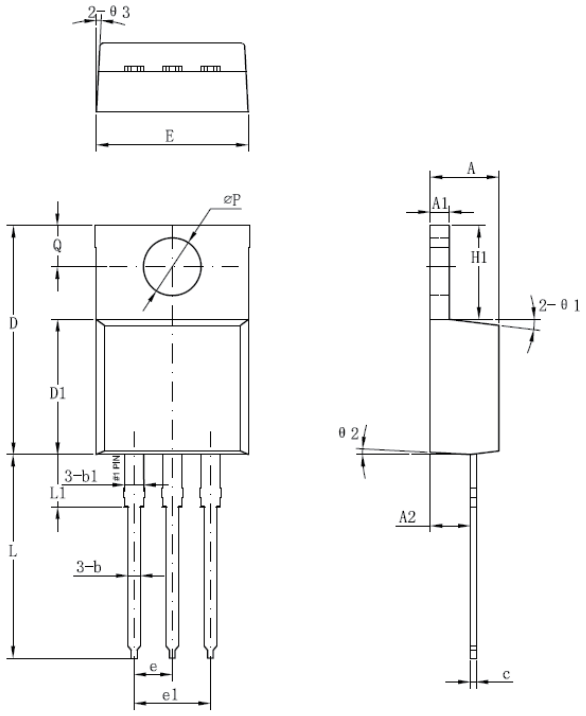


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Schottky Barrier Rectifier
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Dimensions- TO-220AB



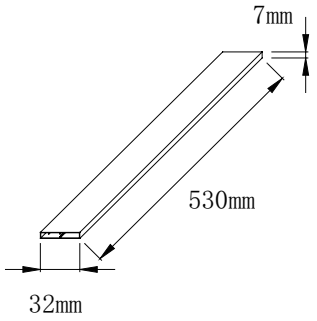
Symbol	Millimeters	
	Min	Max
A	3.56	4.83
A1	0.51	1.40
A2	2.03	2.92
b	0.38	1.02
b1	1.14	1.78
c	0.31*	0.61
D	14.22	16.51
D1	8.38	9.15*
E	9.65	10.67
e	2.54	-
e1	4.98*	-
H1	5.84	6.86
L	12.70	14.73
L1	-	6.35
øP	3.53	4.09
Q	2.54	3.43

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

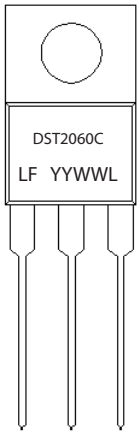
Packing Options

Part Number	Marking	Packing Mode	M.O.Q
DST2060C	DST2060C	50pcs / Tube	1000

Tube Specification



Part Numbering and Marking System



DST	= Device Type
20	= Forward Current (20A)
60	= Reverse Voltage (60V)
C	= Configuration
LF	= Littelfuse
YY	= Year
WW	= Week
L	= Lot Number

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