

Green Products

SDUR/B/D1560CT ULTRAFAST PLASTIC RECTIFIER

Applications:

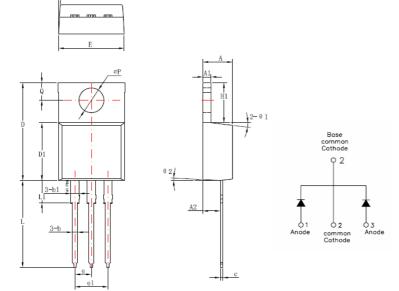
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- · Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In Inches / mm



	Dimensions in			
Symbol	millimeters			
	Min	Typical	Max	
Α	4.42	4.57	4.72	
A1	1.17	1.27	1.37	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.38	0.61	
D	14.94	15.24	15.54	
D1	8.85	9.00	9.15	
E	10.01	10.16	10.31	
e		2.54		
e1		5.06		
H1	6.04	6.24	6.44	
L	12.7	13.56	13.78	
L1		3.5		
ΦР	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7°		
Θ2		3°		
Θ3		4°		

Dimensions in

TO-220AB

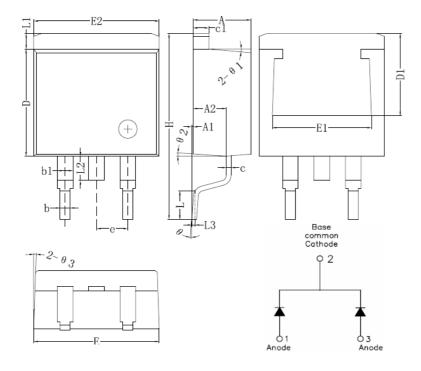
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Symbol	Dimensions in			
		millimeters	S	
	Min.	Typical	Max.	
Α	4.55	4.70	4.85	
A1	0	0.10	0.25	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.38	0.61	
c1	1.17	1.27	1.37	
D	8.55	8.70	8.85	
D1	6.40			
E	10.01	10.16	10.31	
E1	7.6			
E2	9.98	10.08	10.18	
е		2.54		
Н	14.6	15.1	15.6	
L	2.00	2.30	2.70	
L1	1.17	1.27	1.40	
L2			2.20	
L3		0.25BSC		
е	0	-	8°	
e1		5°		
e2		4°		
e3		Δ°		

 $D^2 PAK$

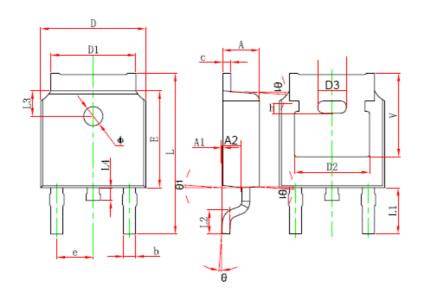
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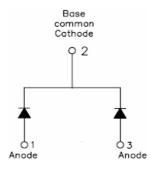




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Symbol	Dimensions In Millimeters		Dimensions In Inches	
Syllibol	Min.	Max.	Min.	Max.
A	2.200	2.380	0.087	0.094
A1	0.000	0.100	0.000	0.004
b	0.710	0.810	0.028	0.032
С	0.460	0.560	0.018	0.022
D	6.500	6.700	0.256	0.264
D1	5.130	5.460	0.202	0.215
D2	4.830	REF.	0.190	REF.
E	6.000	6.200	0.236	0.244
е	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900	REF.	0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	1.600	REF.	0.063 REF.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
A2	0.910	1.110	0.036	0.044
V	5.350 REF.		0.211 REF.	
D3	1.778REF.		0.070	REF.
h	0.762REF.		0.030	REF.
0 1	7°		7°	



DPAK

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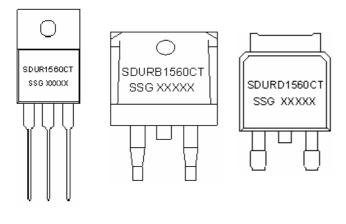
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SDUR/B/D1560CT

Technical Data Data Sheet N1286, Rev. - **Green Products**

Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type B/D = Package type

15 = Forward Current 15A) 60 = Reverse Voltage (600V)

= Configuration

SSG = SSG YY = Year WW = Week L = Lot Number

CT

SDUR1560CT

SDURB1560CT

SDURD1560CT

Cautions: Molding resin

Epoxy resin UL:94V-

Ordering Information:

Device	Package	Shipping
SDUR1560CT	TO-220AB (Pb-Free)	50pcs / tube
SDURB1560CT	D² PAK (Pb-Free)	800pcs/ reel
SDURD1560CT	DPAK (Pb-Free)	2500pcs/ reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Symbol Condition		Units
Peak Inverse Voltage	V_{RWM}	-	600	V
Max. Average Forward	lo _(AV)	50Hz, Sine wave, T _C =105℃	15	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	110	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@8A, Pulse, T _J = 25°C	1.5	V
	V_{F2}	@8A, Pulse, T _J = 150°C	1.3	V
	I _{R1}	$@V_R = rated V_R$	10	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	I _{R2}	$@V_R = rated V_R$	1.5	mA
		T _J = 125°C		
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

 $^{^{\}star}$ Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	SDUR1560CT	SDURB1560CT	SDURD1560CT	Units
Junction Temperature	TJ		-55 to +150		°C
Storage Temperature	T _{stg}		-55 to +150		
Maximum Thermal Resistance Junction to Case(per leg)*	$R_{ heta JC}$	2.3	2.3	1.7	K/W
Approximate Weight	wt	2.0	1.85	0.39	g
Case Style	TO-220AB/ D ² PAK/ DPAK				

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Technical Data
Data Sheet N1286, Rev. -

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