



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Phase-leg Rectifier Diode ISOPLUS220™

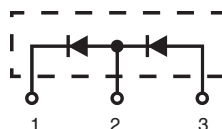
Electrically Isolated Back Surface

$$V_{RRM} = 800/1200 \text{ V}$$

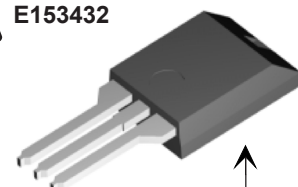
$$I_{F(AV)M} = 2 \times 11 \text{ A}$$

V_{RSM} V	V_{RRM} V	Type
900	800	DSP 8-08AC
1300	1200	DSP 8-12AC

Preliminary Data Sheet



ISOPLUS 220™
E153432



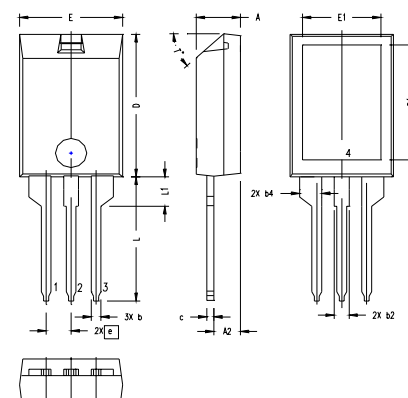
Isolated back surface*

Symbol	Test Conditions	Maximum Ratings
I_{FRMS}	$T_{VJ} = T_{VJM}$	30 A
$I_{F(AV)M}$	$T_{case} = 100^\circ\text{C}; 180^\circ \text{ sine}$	2 x 11 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz), sine	100 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	105 A
	$T_{VJ} = 150^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz), sine	85 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	90 A
I^2t	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz), sine	50 A ² s
	$t = 8.3 \text{ ms}$ (60 Hz), sine	45 A ² s
	$T_{VJ} = 150^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz), sine	35 A ² s
	$t = 8.3 \text{ ms}$ (60 Hz), sine	30 A ² s
T_{VJ}		-40...+150 °C
T_{VJM}		150 °C
T_{stg}		-55...+150 °C
T_L	1.6 mm (0.063 in) from case for 10 s	260 °C
V_{ISOL}	50/60 Hz RMS; $I_{ISOL} \leq 1 \text{ mA}$	2500 V~
F_c	Mounting Force	11...65 / 2.5...15 N/lb
Weight		2 g

Features

- Silicon chip on Direct-Copper-Bond substrate
- High power dissipation
- Isolated mounting surface
- 2500V electrical isolation
- For single and three phase bridge configuration
- Low cathode to tab capacitance (<15pF)
- Planar passivated chips
- Epoxy meets UL 94V-0

ISOPLUS220 Outline



SYM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.157	.197	4.00	5.00
A2	.098	.118	2.50	3.00
b	.035	.051	0.90	1.30
b2	.049	.065	1.25	1.65
b4	.093	.100	2.35	2.55
c	.028	.039	0.70	1.00
D	.591	.630	15.00	16.00
D1	.472	.512	12.00	13.00
E	.394	.433	10.00	11.00
E1	.295	.335	7.50	8.50
e	.100	BASIC	2.55	BASIC
L	.512	.571	13.00	14.50
L1	.118	.138	3.00	3.50
T*			42.5°	47.5°

NOTE:

1. Bottom heatsink (Pin 4) is electrically isolated from Pin 1, 2, or 3.
2. This drawing will meet dimensional requirement of JEDEC SS Product Outline TO-273 except D and D1 dimension.

Notes: Data given for $T_{VJ} = 25^\circ\text{C}$ and per diode unless otherwise specified

① Pulse test: pulse Width = 5 ms, Duty Cycle < 2.0 %

② Pulse test: pulse Width = 300 μs, Duty Cycle < 2.0 %

IXYS reserves the right to change limits, test conditions and dimensions.