

Phase-leg Rectifier Diode

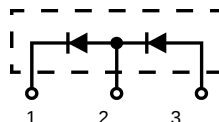
$$V_{RRM} = 1200/1600 \text{ V}$$

$$I_{F(RMS)} = 2 \times 70 \text{ A}$$

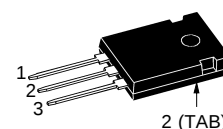
$$I_{F(AV)M} = 2 \times 45 \text{ A}$$

Preliminary data

V_{RSM} V	V_{RRM} V	Type
1300	1200	DSP 45-12A
1700	1600	DSP 45-16A



TO-247 AD



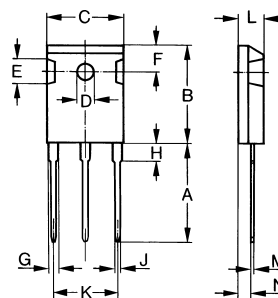
1 = Cathode, 2 = Anode/Cathode, 3 = Anode

Symbol	Test Conditions	Maximum Ratings
$I_{F(RMS)}$ $I_{F(AV)M}$	$T_C = 130^\circ\text{C}; 180^\circ \text{ sine}$	70 45 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms}$ $t = 8.3 \text{ ms}$ (50 Hz), sine (60 Hz), sine	480 510 A
	$T_{VJ} = 150^\circ\text{C}; t = 10 \text{ ms}$ $t = 8.3 \text{ ms}$ (50 Hz), sine (60 Hz), sine	420 450 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $t = 10 \text{ ms}$ $t = 8.3 \text{ ms}$ (50 Hz), sine (60 Hz), sine	1150 1090 A^2s
	$T_{VJ} = 150^\circ\text{C}; t = 10 \text{ ms}$ $t = 8.3 \text{ ms}$ (50 Hz), sine (60 Hz), sine	880 850 A^2s
T_{VJ}		-40...+180 $^\circ\text{C}$
T_{VJM}		180 $^\circ\text{C}$
T_{stg}		-40...+150 $^\circ\text{C}$
M_d	mounting torque M3	0.8...1.2 Nm
Weight		6 g

Features

- International standard package JEDEC TO-247 AD
- For single and three phase bridge configuration
- Planar passivated chips
- Epoxy meets UL 94V-0 flammability classification

Dimensions in mm (1 mm = 0.0394")



Dim.	Millimeter Min. Max.	Inches Min. Max.
A	19.81 20.32	0.780 0.800
B	20.80 21.46	0.819 0.845
C	15.75 16.26	0.610 0.640
D	3.55 3.65	0.140 0.144
E	4.32 5.49	0.170 0.216
F	5.4 6.2	0.212 0.244
G	1.65 2.13	0.065 0.084
H	- 4.5	- 0.177
J	1.0 1.4	0.040 0.055
K	10.8 11.0	0.426 0.433
L	4.7 5.3	0.185 0.209
M	0.4 0.8	0.016 0.031
N	1.5 2.49	0.087 0.102

Data according to IEC 60747 and refer to a single diode
IXYS reserves the right to change limits, test conditions and dimensions