

## DPG30C300HB

HiPerFred™ 2nd. Generation Fast Diodes

### PRELIMINARY DATA SHEET

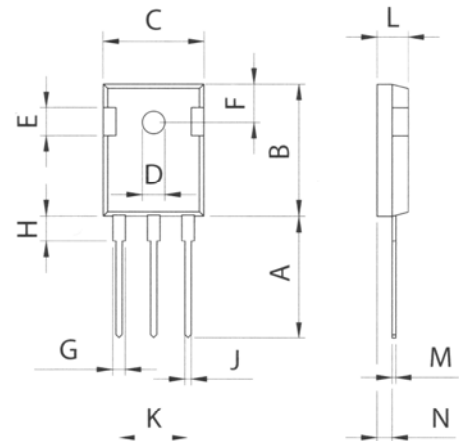
#### Product Detail

Part number: DPG30C300HB  
 Description: HiPerFRED™ 2nd Gen Fast Diodes  
 Configuration: Common cathode  
 Package style: TO-247AD  
 Status: Active product

#### Parameter

$V_{RRM}$	300 V
$I_{F(AV)M}$ , d=0.5, Total	30 A
$I_{F(AV)M}$ , d=0.5, per diode	15 A
@ $T_{case}$	140 °C
$I_{FRMS}$	-----
$I_{FSM}$ , 10 mS, $T_{VJ}=45^{\circ}C$	150 A
VF, max, $T_{VJ}=150^{\circ}C$	1.00 V
@ $I_F$	15 A
trr, typ, $T_{VJ}=25^{\circ}C$	35 ns
$I_{RM}$ , typ, $T_{VJ}=100^{\circ}C$ ,	3 A
@ -di/dt	200 A/μs
$T_{VJM}$	175 °C
$R_{thJC}$ max	1.70 °C/W

TO-247 AD



Dim.	Millimeter		Inches	
	Min.	Max.	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