

INCHANGE SEMICONDUCTOR

DPG60C200HB

 High pe Low loss Commo Minimur 	S 0-247 packaging rformance fast recovery diode s and soft recovery in cathode m Lot-to-Lot variations for robust device ance and reliable operation	10		
Power sGeneral	ng power supply switching circuits			
SYMBOL	PARAMETER	VALUE	UNIT	
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V	→ ← J D> ← → ← H ← G →
lf(AV)	Average Rectified Forward Current @Tc=140°C	30	A	Imm DIM MIN MAX A 19.80 20.20 B 15.40 15.80
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 50Hz)	360	А	C 4.90 5.10 D 0.90 1.10 E 1.40 1.60 F 1.90 2.10
TJ	Junction Temperature	-55~175	°C	G 10.80 11.00 H 2.40 2.60 J 0.50 0.70 K 19.50 20.50
T _{stg}	Storage Temperature Range	-55~175	°C	P 3.90 4.10 Q 3.30 3.50 U 5.20 5.40
	1		I	V 2.90 3.10



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Ultra fast Rectifier

DPG60C200HB

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case		°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧=30A ;Tj=25℃ I⊧=30A ;Tj=150℃ I⊧=60A ;Tj=25℃ I⊧=60A ;Tj=150℃	1.34 1.06 1.63 1.39	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=25℃ V _R = V _{RWM;} Tj=150℃	1 100	μA
trr	Maximum Reverse Recovery Time	IF =30A;V _R =130V;diF/dt=200A/ μ s	35	ns

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