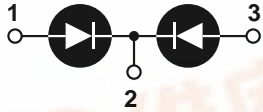
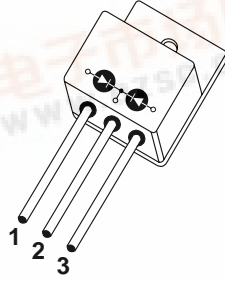


查询APT30D20HCT供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货



1 - Anode 1
2 - Common Cathode
3 - Anode 2



APT30D20HCT 200V 2x30A

ULTRAFast SOFT RECOVERY RECTIFIER DIODES

PRODUCT APPLICATIONS	PRODUCT FEATURES	PRODUCT BENEFITS
<ul style="list-style-type: none"> • Parallel Diode <ul style="list-style-type: none"> -Switchmode Power Supply -Inverters • Free Wheeling Diode <ul style="list-style-type: none"> -Motor Controllers -Converters • Snubber Diode • Uninterruptible Power Supply (UPS) • Induction Heating • High Speed Rectifiers 	<ul style="list-style-type: none"> • Ultrafast Recovery Times • Soft Recovery Characteristics • Hermetic TO-258 Package • Low Forward Voltage • High Blocking Voltage • Low Leakage Current 	<ul style="list-style-type: none"> • Low Losses • Low Noise Switching • Cooler Operation • Higher Reliability Systems • Increased System Power Density

MAXIMUM RATINGS

All Ratings Are Per Leg: $T_C = 25^\circ\text{C}$ unless otherwise specified.

Symbol	Characteristic / Test Conditions	APT30D20HCT	UNIT
V_R	Maximum D.C. Reverse Voltage	200	Volts
V_{RRM}	Maximum Peak Repetitive Reverse Voltage		
V_{RWM}	Maximum Working Peak Reverse Voltage		
$I_F(AV)$	Maximum Average Forward Current ($T_C = 85^\circ\text{C}$, Duty Cycle = 0.5)	30	Amps
$I_F(RMS)$	RMS Forward Current	70	
I_{FSM}	Non-Repetitive Forward Surge Current ($T_J = 45^\circ\text{C}$, 8.3ms)	320	
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to 150	$^\circ\text{C}$
T_L	Lead Temperature: 0.063" from Case for 10 Sec.	300	

STATIC ELECTRICAL CHARACTERISTICS

Symbol	Characteristic / Test Conditions	MIN	TYP	MAX	UNIT
V_F	Maximum Forward Voltage			1.45	Volts
				$I_F = 30\text{A}$	
				$I_F = 60\text{A}$	
I_{RM}	Maximum Reverse Leakage Current			1.3	μA
				$V_R = V_R$ Rated	
				$V_R = V_R$ Rated, $T_J = 125^\circ\text{C}$	
C_T	Junction Capacitance, $V_R = 150\text{V}$		110		pF
L_S	Series Inductance (Lead to Lead 5mm from Base)		TBD		nH

APT Website - <http://www.advancedpower.com>

405 S.W. Columbia Street

Bend, Oregon 97702-1035

Phone: (541) 382-8028

FAX: (541) 388-0364

Avenue J.F. Kennedy, Bât B4 Parc Cadéra Nord

F-33700 Merignac - France

Phone: (33) 5 57 92 15 15

FAX: (33) 5 56 47 97 61

DYNAMIC CHARACTERISTICS

APT30D20HCT

Symbol	Characteristic	MIN	TYP	MAX	UNIT
t_{rr1}	Reverse Recovery Time, $I_F = 1.0A$, $di_F/dt = -15A/\mu s$, $V_R = 30V$, $T_J = 25^\circ C$		35	50	ns
t_{rr2}	Reverse Recovery Time	$T_J = 25^\circ C$	40		
t_{rr3}	$I_F = 30A$, $di_F/dt = -240A/\mu s$, $V_R = 100V$	$T_J = 100^\circ C$	60		
t_{fr1}	Forward Recovery Time	$T_J = 25^\circ C$	155		Volts
t_{fr2}	$I_F = 30A$, $di_F/dt = 240A/\mu s$, $V_R = 100V$	$T_J = 100^\circ C$	155		
I_{RRM1}	Reverse Recovery Current	$T_J = 25^\circ C$	6	8	Amps
I_{RRM2}	$I_F = 30A$, $di_F/dt = -240A/\mu s$, $V_R = 100V$	$T_J = 100^\circ C$	10	13	
Q_{rr1}	Recovery Charge	$T_J = 25^\circ C$	120		nC
Q_{rr2}	$I_F = 30A$, $di_F/dt = -240A/\mu s$, $V_R = 100V$	$T_J = 100^\circ C$	300		
V_{fr1}	Forward Recovery Voltage	$T_J = 25^\circ C$	2.5		Volts
V_{fr2}	$I_F = 30A$, $di_F/dt = 240A/\mu s$, $V_R = 100V$	$T_J = 100^\circ C$	2.5		
diM/dt	Rate of Fall of Recovery Current $I_F = 30A$, $di_F/dt = -240A/\mu s$, $V_R = 100V$ (See Figure 10)	$T_J = 25^\circ C$		300	A/ μs
		$T_J = 100^\circ C$		600	

THERMAL AND MECHANICAL CHARACTERISTICS

Symbol	Characteristic / Test Conditions	MIN	TYP	MAX	UNIT
$R_{\theta JC}$	Junction-to-Case Thermal Resistance			0.95	$^\circ C/W$
$R_{\theta JA}$	Junction-to-Ambient Thermal Resistance			40	

APT Reserves the right to change, without notice, the specifications and information contained herein.

TO-258AA Package Outline

