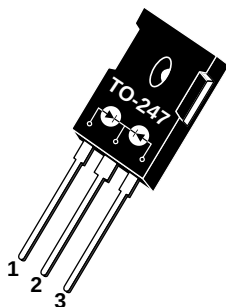


- 1 - Anode 1
2 - Common Cathode
Back of Case - Cathode
3 - Anode 2



APT15D40BCT 400V 2x15A

ULTRAFast SOFT RECOVERY RECTIFIER DIODES

PRODUCT APPLICATIONS

- Parallel Diode
 - Switchmode Power Supply
 - Inverters
- Free Wheeling Diode
 - Motor Controllers
 - Converters
- Snubber Diode
- Uninterruptible Power Supply (UPS)
- Induction Heating
- High Speed Rectifiers

PRODUCT FEATURES

- Ultrafast Recovery Times
- Soft Recovery Characteristics
- Popular TO-247 Package
- Low Forward Voltage
- High Blocking Voltage
- Low Leakage Current

PRODUCT BENEFITS

- 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	APT15D40BCT	UNIT
V_R	Maximum D.C. Reverse Voltage	400	Volts
V_{RRM}	Maximum Peak Repetitive Reverse Voltage		
V_{RWM}	Maximum Working Peak Reverse Voltage		
$I_F(AV)$	Maximum Average Forward Current ($T_C = 100^\circ\text{C}$, Duty Cycle = 0.5)	15	Amps
$I_F(RMS)$	RMS Forward Current	25	
I_{FSM}	Non-Repetitive Forward Surge Current ($T_J = 45^\circ\text{C}$, 8.3ms)	110	
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	$I_F = 15\text{A}$		1.5	Volts
		$I_F = 30\text{A}$		1.5	
		$I_F = 15\text{A}, T_J = 150^\circ\text{C}$		1.3	
I_{RM}	Maximum Reverse Leakage Current	$V_R = V_R \text{ Rated}$		150	μA
		$V_R = V_R \text{ Rated}, T_J = 125^\circ\text{C}$		500	
C_T	Junction Capacitance, $V_R = 200\text{V}$		N/A		pF
L_S	Series Inductance (Lead to Lead 5mm from Base)		N/A		nH

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APT15D40BCT

THERMAL AND MECHANICAL CHARACTERISTICS

TO-247 Package Outline

