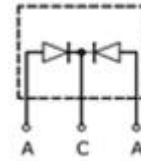
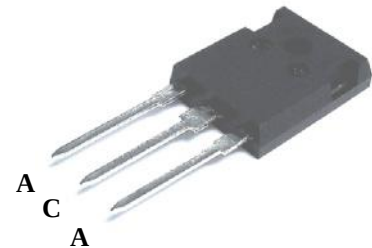


**Parallel (Common Cathode) 15A, 1200V
Fast Recovery Diode in TO247 Package**
APPLICATIONS

- Switch mode power supplies (SMPS) rectifiers
- Resonant applications
- Industrial drives


FEATURES

- Fast recovery
- Soft switching
- Low reverse recovery charge
- Low forward voltage drop
- Low leakage current
- Pb-free finished; **RoHS compliant**


MAXIMUM RATINGS (per diode)

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1200	V
Continuous forward current $T_C = 25^\circ\text{C}$ $T_C = 90^\circ\text{C}$	I_F	32 15	A
Diode pulsed current, t_p limited by T_{Jmax}	I_{Fpulse}	50	
Maximum repetitive forward current $T_C = 25^\circ\text{C}$, t_p limited by T_{Jmax} , $D = 0.5$	I_{FRM}	30	
Operating junction and storage temperature	T_J, T_{stg}	-55... +175	$^\circ\text{C}$

Thermal Characteristics (per diode)

Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R_{thJC}	1.5	K/W

Electrical Characteristics (per diode), at $T_J = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Static Characteristics					
Reverse leakage current VR = 1200V	IR	-	-	27	μA
Forward voltage drop IF = 15A IF = 15A, TI = 150°C	VF	- -	2.0 1.75	2.5 -	V

Electrical Characteristics (per diode), at $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Dynamic Characteristics					
Reverse recovery time V _R = 600V, I _F = 15A, di _F /dt = 600A/μs T _j = 25°C T _j = 125°C	t _{rr}	- -	65 200	- -	ns
Peak reverse current V _R = 600V, I _F = 15A, di _F /dt = 600A/μs T _j = 25°C T _j = 125°C	I _{rrm}	- -	15 23	- -	A
Reverse recovery charge V _R = 600V, I _F = 15A, di _F /dt = 600A/μs T _j = 25°C T _j = 125°C	Q _{rr}	- -	0.5 2.0	- -	μC

Package Outline Drawing
