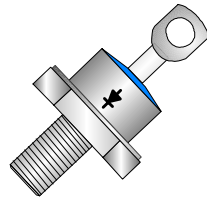




30HFU Series

Super Fast Recovery Rectifier

$V_{RRM} = 100-600V$, $I_{F(AV)} = 30Amp$, $V_F = 1.45V$



Cathode to Stud Shown
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS ($T_J = 25^\circ C$ unless stated otherwise)								
Parameter	Symbol	30HFU (R) - 100	30HFU (R) - 200	30HFU (R) - 300	30HFU (R) - 400	30HFU (R) - 500	30HFU (R) - 600	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	Volt
Maximum Average On-State Current	$I_{F(AV)}$	30.0						Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	500						Amp
Maximum I^2T for Fusing 8.3ms	I^2T	730						A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-40 to +125						$^\circ C$
Maximum Junction Temperature Range	T_J	-40 to +150						$^\circ C$

ELECTRICAL CHARACTERISTICS at $T_J = 25^\circ C$ Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage (1)	$V_{FM(1)}$	$I_{FM} = 30$ Amps			1.45	Volt
Maximum Forward Voltage (2)	$V_{FM(2)}$	$I_{FM} = 30$ Amps $T_J = 125^\circ C$			1.25	Volt
Repetitive Peak Off- State Current	I_{DRM}	$V_R = V_{RRM}$			35	μA
Reverse Recovery Time	t_{RR}			60	80	nS
Maximum Value of Threshold Voltage	$V_{F(TD)}$				1.08	Volt
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.35	$^\circ C/W$
Mounting Torque	M_T				1.2	NM
Weight	Wt				7.0	grms

Mechanical Outline

