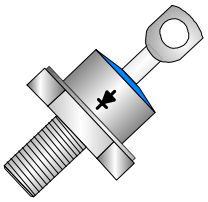
Transys Electronics LIMITED

85HFL Series

Super Fast Recovery Rectifier

V_{RRM} = 150-1000V, $I_{F(AV)}$ = 85Amp,VF = 1.75V



Cathode to Stud Shown

(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)								
Parameter	Symbol	85HFL (R)10 S02/5/10	85HFL (R)20 S02/5/10	85HFL (R)40 S02/5/10	85HFL (R)60 S02/5/10	85HFL (R)80 S02/5/10	85HFL (R)80 S02/5/10	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	$I_{F(AV)}$	85.0						Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	1151						Amp
Maximum I^2T for Fusing 8.3ms	I^2T	5523						A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-40 to +125						°C
Maximum Junction Temperature Range	Tj	-40 to +150						°C

ELECTRICAL CHARACTERISICS at Tj = 25° C Maximum. Unless stated Otherwise						
Parameter		Condition	Value			Unit
	Symbol		Min	Typ	Max	
Maximum Forward Voltage (1)	$V_{FM(1)}$	I_{FM} =85 Amps			1.75	Volt
Repetitive Peak Off- State Current	I_{DRM}	$V_R = V_{RRM}$			100	µA
Reverse Recovery Time SO2	t_{RR}				50	nS
Reverse Recovery Time SO5	t_{RR}				120	nS
Reverse Recovery Time SO10	t_{RR}				270	nS
Thermal Resistance (Junction to Case)	$R_{TH\ (J-c)}$				0.30	°C/W
Mounting Torque	M_T				2.5	NM
Weight	Wt				25	grms

Mechanical Outline

