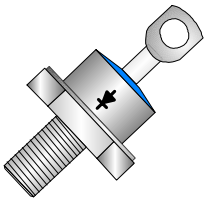
Transys Electronics LIMITED

50PF(R) Series

STANDARD RECOVERY DIODE

V_{RRM} = 400-1200V, $I_{F(AV)}$ = 50Amp.



Cathode to Stud Shown

(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)					
Parameter	Symbol	50PF(R) -40	50PF(R) -80	50PF(R) -120	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400	800	1200	Volt
Maximum Average On-State Current	$I_{F(AV)}$	50 at T_c= 140°C			Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	700			Amp
Maximum I^2T for Fusing 8.3ms	I^2T	2050			A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-55 to +180			°C
Maximum Junction Temperature Range	Tj	-55 to +180			°C

ELECTRICAL CHARACTERISICS at Tj = 25° C Maximum. Unless stated Otherwise						
Parameter		Condition	Value			Unit
	Symbol		Min	Typ	Max	
Maximum Forward Voltage	V_{FM}	I_{FM} =125 Amps T_P = 400µS rect. wave			1.40	Volt
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$, tj= 150°C			9.0	mA
Thermal Resistance (Junction to Case)	$R_{TH\ (J-c)}$				0.51	°C/W
Mounting Torque	M_T				3.4	NM
Weight	Wt				15.8	grms

Mechanical Outline

