

D03-XX00
RECTIFIER DIODE

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT	
				Min	Type	Max		
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz single side cooled, T _{HS} =55°C	150			445	A	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz single side cooled, T _{HS} =90°C	150			324	A	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	100		2000	V	
I _{RRM}	Repetitive peak current	at V _{RRM}	150			30	mA	
I _{FSM}	Surge forward current	10ms half sine wave	150			4	KA	
I ² T	I ² T for fusing coordination	V _R =0.6V _{RRM}					80	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.98	V	
r _F	Forward slop resistance						0.88	mΩ
V _{FM}	Peak on-state voltage	I _{TM} =900A	150			2.0	V	
I _{rm}	Reverse recovery current		150			60	A	
t _{rr}	Reverse recovery time	I _{TM} =300A, tp=1000μs, di/dt=-20A/μs, V _R =50V					4.0	μs
Q _{rr}	Recovery charge						120	μC
R _{th(j-h)}	Thermal resistance Junction to heatsink	At 180° sine single side cooled Clamping torque 27 N·m				0.11	°C /W	
F _m	Mounting torque			25		30	N·m	
T _{stg}	Stored temperature			-40		160	°C	
Outline	D4							

Outline

