

Notes:

All ratings are specified for $T_j=25\text{ }^\circ\text{C}$, unless otherwise stated

- (1) All voltage ratings are specified for an applied 50Hz/60Hz sinusoidal waveform over the temperature range $-40\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$.
- (2) 10 msec. max. pulse width
- (3) Maximum value for $T_j = 125\text{ }^\circ\text{C}$.
- (4) See parameter definition below :

V_{RRM} = Repetitive peak reverse voltage

V_{RSM} = Non repetitive peak reverse voltage (2)

Repetitive peak reverse leakage current	I_{RRM}	10 mA 15 mA (3)
---	-----------	--------------------

Average forward current	$I_{F(AV)}$	560	A	Sinewave 180° , $T_c = 70$
RMS forward current	I_{FRMS}	880	A	
Peak one cycle surge (non repetitive) current	I_{FSM}	8960	A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 125$
I square t	I^2t	$40\ 10^4$	A^2s	8.3 msec and 10.0 msec
Peak forward voltage	V_{FM}	2.40	V	$I_{FM} = 1200A$; Duty cycle 0.01%
Threshold voltage	V_{FO}	1.40	V	$T_j = 125^\circ\text{C}$, $I = 0.5\ I_{F(AV)}$ to $1.5\ I_{F(AV)}$
Slope resistance	r_F	0.55	m	$T_j = 125^\circ\text{C}$, $I = 0.5\ I_{F(AV)}$ to $1.5\ I_{F(AV)}$
Reverse Recovery Current (4)	$I_{RM(REC)}$	*	A	$I_{FM} = 1000\text{ A}$; $dI_F/dt = 10\text{ A/ }s$; T_{jmax}
Reverse Recovery Charge (4)	Q_{rr}	*	μC	$I_{FM} = 1000\text{ A}$; $dI_F/dt = 10\text{ A/ }s$; T_{jmax}
Reverse Recovery Time (4)	t_{rr}	8	μs	$I_{FM} = 1000\text{ A}$; $dI_F/dt = 10\text{ A/ }s$; T_{jmax}



