

April 2018

PRODUCT FEATURES

APPLICATIONSDESCRIPTION

ABSOLUTE MAXIMUM RATINGS (

Unit

$I_{F(RMS)}$	RMS Forward Current	$T_C=120^\circ\text{C}$, Per Diode	42
I_{FSM}	Non Repetitive Surge Forward Current	$T_J=25^\circ\text{C}$, $t=10\text{ms}$, 50Hz, Sine	260
P_D	Power Dissipation		187
T_J	Junction Temperature		-55 to +175
T_{STG}	Storage Temperature Range		-55 to +150
Torque	To Heat Sink	Recommended $\text{Å}3\text{ Å}$	1.1
R_{thJC}	Junction to Case Thermal Resistance(Per Diode)		0.8
Weight			6=30A,T
t_{rr}	Reverse Recovery Time ($I_F = 1\text{A}$, $di_F/dt = -200\text{A/s}$, $V_R = 30\text{V}$)	$t_{rr} = 150\text{ns}$	1.6

I_F (A)

Z_{thJC} (K/W)

T_c ()

Rectangular Pulse Duration (s)

Figure 5. Forward current vs Case temperature

Figure 6. Transient Thermal Impedance