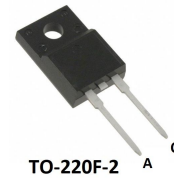


Features

- Plastic standard package
- Planar passivated chips



Applications

- Low power rectifiers
- Field supply for DC motors
- Power supplies
- High voltage rectifiers



Absolute Maximum Ratings

Symbol	Test Conditions	Values	Unit
V_{RRM}		1950	V
V_{RSM}		1950	V
I_{FRMS}	$T_{VJ} = T_{VJM}$	8	A
I_{FAVM}	$T_{amb} = 45^{\circ}\text{C}; R_{thJA} = 38 \text{ K/W}; 180^{\circ} \text{ sine}$	2.6	A
	$T_{amb} = 45^{\circ}\text{C}; R_{thJA} = 80 \text{ K/W}; 180^{\circ} \text{ sine}$	1.5	A
P_{RSM}	$T_{VJM}, t_p = 10 \mu\text{s}$	1.6	KW
I_{FSM}	$T_{VJ} = 45^{\circ}\text{C}; t = 10 \text{ ms (50 Hz), sine}$	110	A
	$t = 8.3 \text{ ms (60 Hz), sine}$	118	A
	$T_{VJ} = 150^{\circ}\text{C}; t = 10 \text{ ms (50 Hz), sine}$	100	A
	$t = 8.3 \text{ ms (60 Hz), sine}$	104	A
I^2t	$T_{VJ} = 45^{\circ}\text{C}; t = 10 \text{ ms (50 Hz), sine}$	60	A^2S
	$t = 8.3 \text{ ms (60 Hz), sine}$	58	A^2S
	$T_{VJ} = 150^{\circ}\text{C}; t = 10 \text{ ms (50 Hz), sine}$	50	A^2S
	$t = 8.3 \text{ ms (60 Hz), sine}$	45	A^2S
T_{VJ}, T_{STG}		-40~150	$^{\circ}\text{C}$
T_{VJM}		150	

Electrical Characteristics ($T_C=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Test Conditions	Min.	Typ.	Max.	Unit
I_R	$V_R=V_{RRM}$	-	-	0.7	mA
V_F	$I_F=8\text{A}$	-	-	1.34	V
V_{TO}	For power-loss calculations only	-	-	0.8	V
r_T	$T_{VJ}=T_{VJM}$	-	-	67	m Ω
R_{thJA}	Forced air cooling with 1.5 m/s, $T_{amb} = 45^{\circ}\text{C}$	-	-	38	K/W
	Soldered on to PC board, $T_{amb} = 45^{\circ}\text{C}$	-	-	80	

d_s	Creepage distance on surface	-	-	8.5	mm
d_A	Strike distance through air	-	-	6.7	mm
a	Max. allowable acceleration	-	-	100	M/S ²

Package outline dimension

