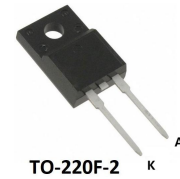


Features

- 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}	$T_{amb} = 45^{\circ}C$; $R_{thJA} = 38$ K/W; 180° sine	2.6	A
	$T_{amb} = 45^{\circ}C$; $R_{thJA} = 80$ K/W; 180° sine	1.5	A
P_{RSM}	T_{VJM} , $t_p = 10$ μ s	1.6	KW
I_{FSM}	$T_{VJ} = 45^{\circ}C$; $t = 10$ ms (50 Hz), sine	110	A
	$t = 8.3$ ms (60 Hz), sine	118	A
	$TVJ = 150^{\circ}C$; $t = 10$ ms (50 Hz), sine	100	A
	$t = 8.3$ ms (60 Hz), sine	104	A
I^2t	$T_{VJ} = 45^{\circ}C$; $t = 10$ ms (50 Hz), sine	60	A ² S
	$t = 8.3$ ms (60 Hz), sine	58	A ² S
	$TVJ = 150^{\circ}C$; $t = 10$ ms (50 Hz), sine	50	A ² S
	$t = 8.3$ ms (60 Hz), sine	45	A ² S
T_{VJ} , T_{STG}		-40~150	°C
T_{VJM}		150	

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

Symbol	Test Conditions	Min.	Typ.	Max.	Unit
I_R	$V_R=V_{RRM}$	-	-	0.7	mA
V_F	$I_F=8A$	-	-	1.34	V
V_{T0}	For power-loss calculations only	-	-	0.8	V
T_{rr}	$I_F=1A$, $V_R=30V$, $di/dt=200A/\mu$ s	-	0.72	1	μ s
r_T	$T_{VJ}=T_{VJM}$	-	-	67	m Ω
R_{thJA}	Forced air cooling with 1.5 m/s, $T_{amb} = 45^{\circ}C$	-	-	38	K/W

