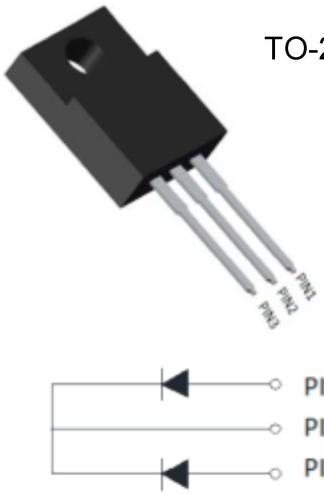
WSR4530FCT

SCHOTTKY BARRIER RECTIFIER

Features

- 30A Schottky barrier diode
- Schottky barrier rectifier
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- High current capability
- Extremely low thermal resistance



Mechanical Data

- Case: TO-220F molded plastic package
- Polarity: As marked

Absolute Maximum Ratings（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	WSR4530FCT	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Average Rectified Output Current @60Hz -sine wave, R- load, Ta=25℃	I_O	15(per leg)	A
		30(total device)	
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave,1 cycle, Ta=25℃	I_{FSM}	200	A
Storage Temperature	T_{stg}	-55 ~+150	℃
Junction Temperature	T_j	-55 ~+150	℃

Electronics characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	TEST CONDITIONS	WSR4530FCT		UNIT
			Typ	Max	
Maximum instantaneous forward voltage drop per diode	V_F	I_F=15.0A(per leg)	0.65	0.7	V
Leakage Current	I_R	$V_R=V_{RRM}$, Tj=25℃	/	0.1	mA
		$V_R=V_{RRM}$, Tj=125℃	5	/	

Typical characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

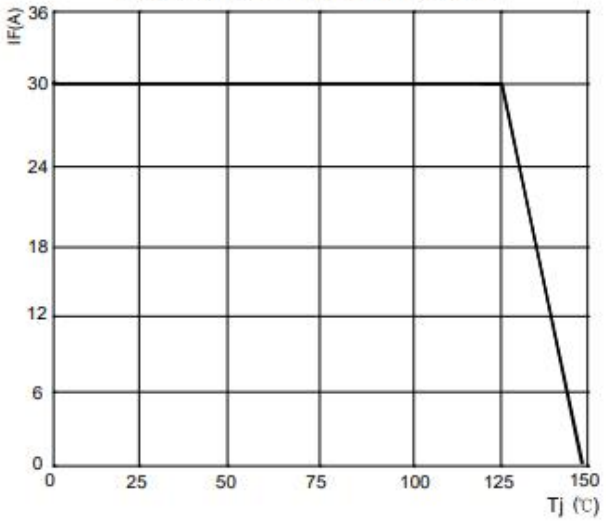


FIG.2: TYPICAL FORWARD CHARACTERISTICS

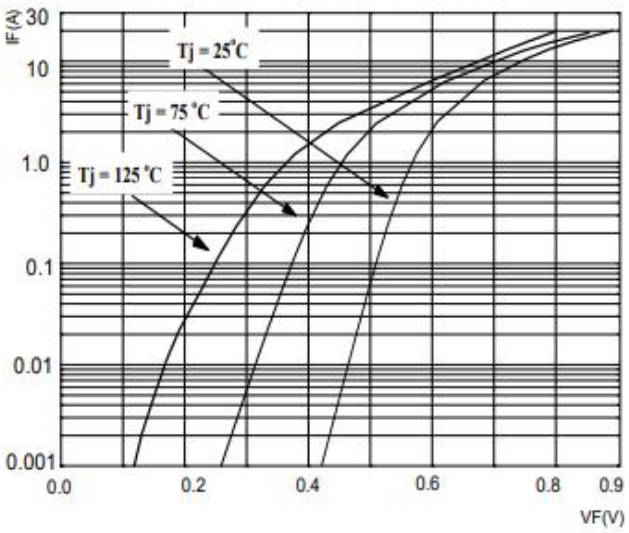


FIG.3: TOTAL CAPACITANCE DERATING CURVE

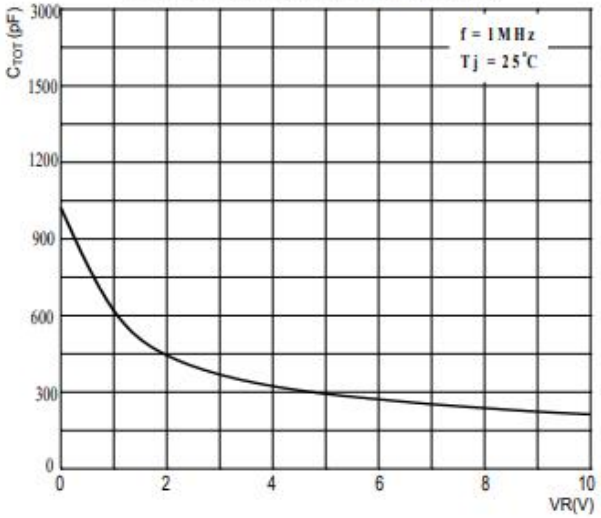
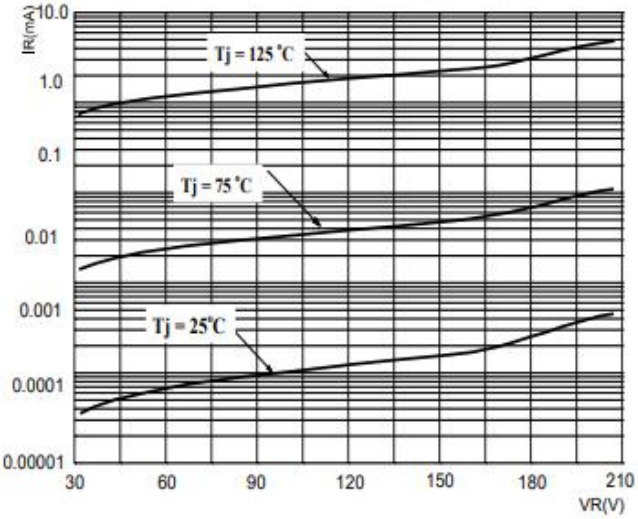
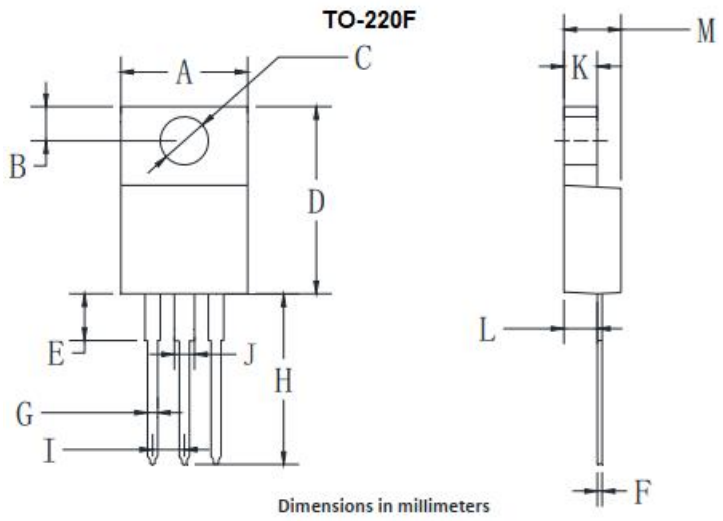


FIG.4: TYPICAL REVERSE CHARACTERISTICS



Outline Drawing



TO-220F		
Dim	Min	Max
A	8.7	10.7
B	2.15	3.25
C	2.6	3.8
D	14.4	15.9
E	3.1	4.5
F	0.4	0.8
G	0.7	0.9
H	12.6	14.2
I	1.8	2.95
J	1.2	1.8
K	2.1	3.56
L	2.1	3.2
M	3.9	5.1

Marking Code

Part Number	WSR4530FCT
Marking Code	MBR3045FCT

Package Information

Quantity per tube: 50pcs

Contact Information

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For additional information, please contact your local Sales Representative.