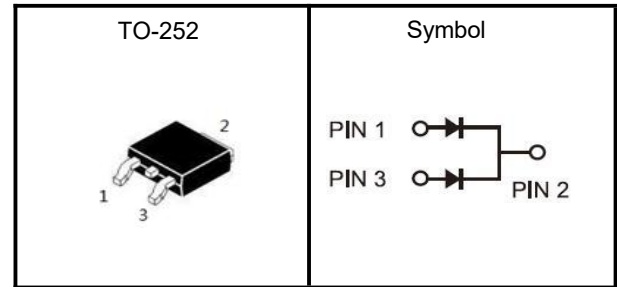


Low IR Schottky Barrier Rectifier 100V Current 30A

Feature

- Low VF,Low IR
- High forward surge capability
- RoHS Compliant & Halogen-Free

Pin Description



Applications

- High frequency switch power supply
- Free wheeling diodes,polarity protection applications

IF(AV)	30	A
VRRM	100	V
VF(Typ)@125℃	0.75	V

Absolute Maximum Ratings (T_c=25℃unless otherwise noted)

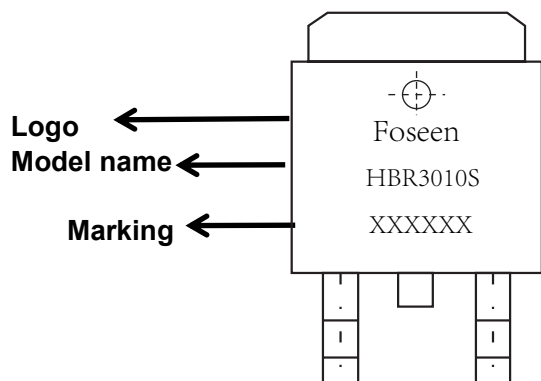
Parameter		Symbol	Limit	Unit
Peak Repetitive Reverse Voltage		VRRM	100	V
Working Peak Reverse Voltage		VRWM	100	V
DC Blocking Voltage		VDC	100	V
RMS Reverse Voltage		V _{RMS}	70	v
Average Forward Rectified Current @T _c =125℃	per diode	IF(AV)	15	A
	Per device	IF(AV)	30	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		IFSM	200	A
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55 To 150	℃

Thermal Characteristic

Thermal Resistance,Junction-to-Case	R _{θJC}	2.8	℃/W
Thermal Resistance,Junction-to-Ambient	R _{θJA}	50	℃/W

**Low IR Schottky Barrier Rectifier 100V Current 30A****Electrical Characteristics ($T_c=25^{\circ}\text{C}$ unless otherwise noted)**

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{RRM}	$I_R = 250\mu\text{A}$	110	-	-	V
Forward Voltage Drop	V_F	$I_F = 2\text{A}, T_J = 25^{\circ}\text{C}$	-	0.60	-	V
		$I_F = 2\text{A}, T_J = 125^{\circ}\text{C}$	-	0.45	-	V
Forward Voltage Drop	V_F	$I_F = 5\text{A}, T_J = 25^{\circ}\text{C}$	-	0.70	-	V
		$I_F = 5\text{A}, T_J = 125^{\circ}\text{C}$	-	0.55	-	V
Forward Voltage Drop	V_F	$I_F = 15\text{A}, T_J = 25^{\circ}\text{C}$	-	-	0.85	V
		$I_F = 15\text{A}, T_J = 125^{\circ}\text{C}$	-	0.75	-	V
Reverse Leakage Current	I_R	$V_R = 100\text{V}, T_J = 25^{\circ}\text{C}$	-	0.5	10	μA
		$V_R = 100\text{V}, T_J = 125^{\circ}\text{C}$	-		5	mA

Marking Information**Marking**

X X X X X X

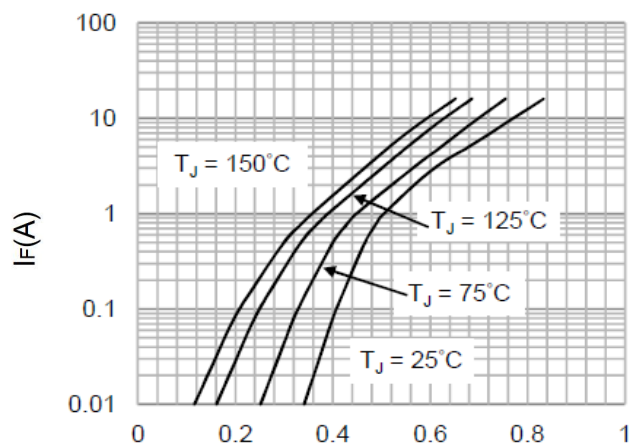
Assembly code

Week (1→第一周)

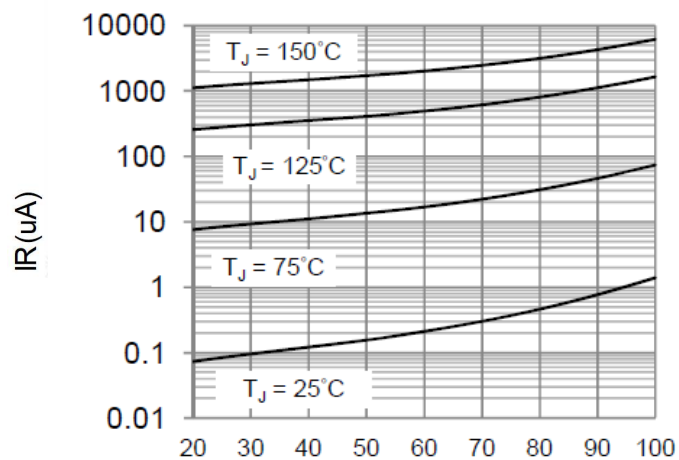
Month-code 1→1月, 2→2.....O→10, N→11, D→12

Year-code A→2025, B→2026, C→2027

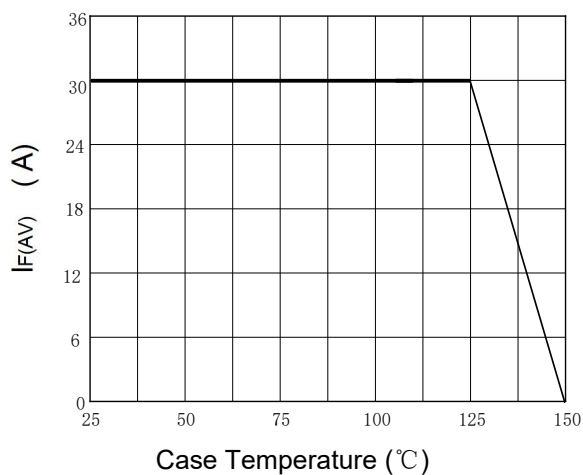
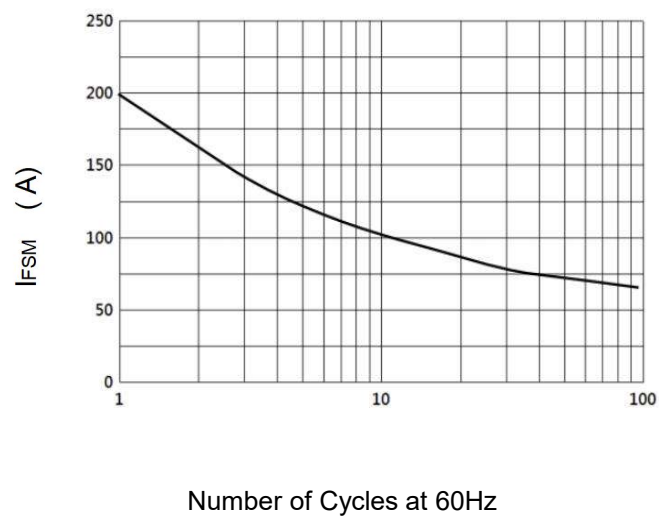
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ELECTRICAL CHARACTERISTICS(curves)
Fig 1. Typical Forward Characteristics


Instantaneous Forward Voltage (V)

Fig 2. Typical Reverse Characteristics


Percent of Rated Peak Reverse Voltage (%)

Fig 3. Forward Current Derating Curve

Fig 4. Non-repetitive Forward Surge Current




TO-252 Package Outline Dimensions (mm)

