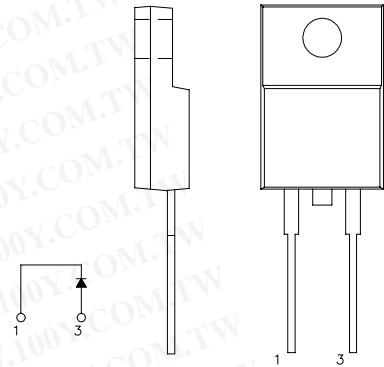


FRD Type : FSF05A60

OUTLINE DRAWING

FEATURES

- * Fully Molded Isolation Case
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



Approx Net Weight:1.7g

Maximum Ratings

Rating	Symbol	FSF05A60		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600		V
Average Rectified Output Current	I_O	5	$T_c=107^\circ\text{C}$ 50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	7.85		A
Surge Forward Current	I_{FSM}	80	50 Hz Half Sine Wave, 1 cycle Non-repetitive	A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150		$^\circ\text{C}$
Mounting torque		0.5	Recommended value	N.m

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$	-	-	30	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 5\text{A}$	-	-	1.7	V
Reverse Recovery Time	trr	$I_{FM} = 5\text{A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_a = 25^\circ\text{C}$	-	-	40	ns
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	5	$^\circ\text{C}/\text{W}$
	Rth(c-f)	Case to Fin	-	-	1.5	

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[Http://www.100y.com.tw](http://www.100y.com.tw)

5A Avg.

600 Volts

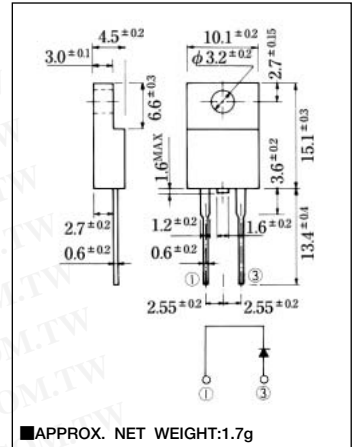
FRED

FSF05A60

■最大定格 Maximum Ratings

Item	Symbol	Conditions	Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	600	V
平均整流電流 Average Rectified Forward Current	I_O	50Hz、正弦半波通電抵抗負荷 50Hz Half Sine Wave Resistive Load	5 A
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	7.85	A
サーージ順電流 Surge Forward Current	I_{FSM}	80 50Hz正弦半波、1サイクル、非くり返し 50Hz Half Sine Wave, 1cycle, Non-repetitive	A
動作接合温度範囲 Operating Junction Temperature Range	T_{jw}	-40~+150	°C
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+150	°C
締付トルク Mounting torque	F_{tor}	推奨値 Recommended Value	0.5 N·m

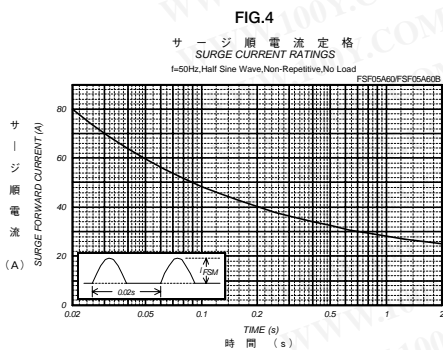
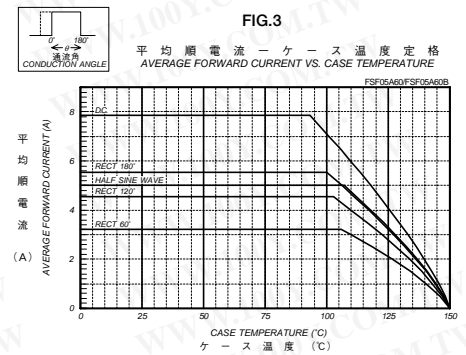
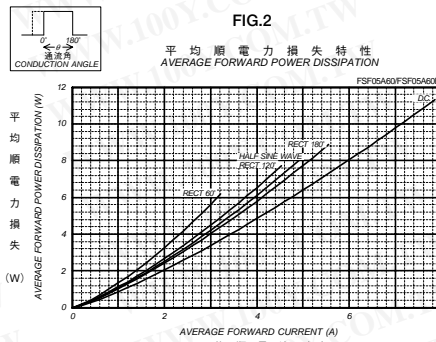
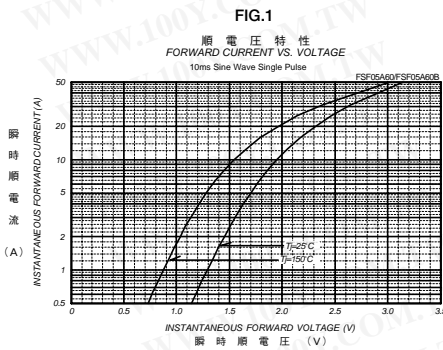
■OUTLINE DRAWING(mm)



■電氣的・熱的特性 Electrical/Thermal Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$	—	—	30	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}=5A$	—	—	1.7	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=5A, -di/dt=50 A/\mu s, T_j=25^{\circ}C$	—	—	40	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	5	°C/W
	$R_{th(c-f)}$	ケース・フィン間 Case to Fin	—	—	1.5	°C/W

■定格・特性曲線



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