

RM35HG-34S

HIGH SPEED SWITCHING USE
NON-INSULATED TYPE

RM35HG-34S



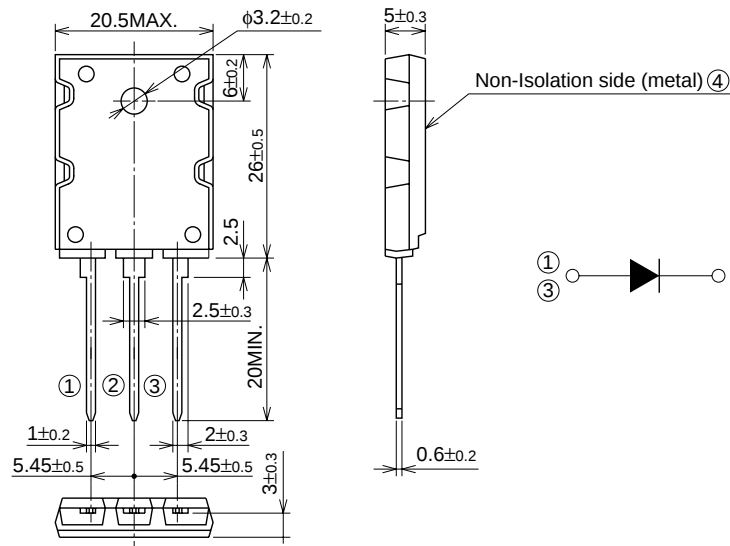
- **Idc** DC current **35A**
- **VRRM** Repetitive peak reverse voltage **1700V**
- **trr** Reverse recovery time **0.3μs**
- **ONE ARM**
- **Non-Insulated Type**

APPLICATION

For snubber circuit (IPM or IGBT module)

OUTLINE DRAWING & CIRCUIT DIAGRAM

Dimensions in mm



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ABSOLUTE MAXIMUM RATINGS (T_j=25°C)

Symbol	Parameter	Voltage class	Unit
		34	
V _{RRM}	Repetitive peak reverse voltage	1700	V
V _{DRM}	Non-repetitive peak reverse voltage	1700	V
V _R (DC)	Reverse DC voltage	1360	V

Symbol	Parameter	Conditions	Ratings	Unit
I _{DC}	DC current	Resistive load, T _c =80°C ①, ③ Collective of terminal	35	A
I _{FSM}	Surge (non-repetitive) forward current	One half cycle at 60Hz, peak value ①, ③ Collective of terminal	400	A
T _j	Junction temperature		-40~+150	°C
T _{stg}	Storage temperature		-40~+125	°C
V _{iso}	Isolation voltage	Charged part to case	—	V
—	Mounting torque	Mounting screw M3	0.59~0.98	N·m
—	Weight	Typical value	10	g

ELECTRICAL CHARACTERISTICS

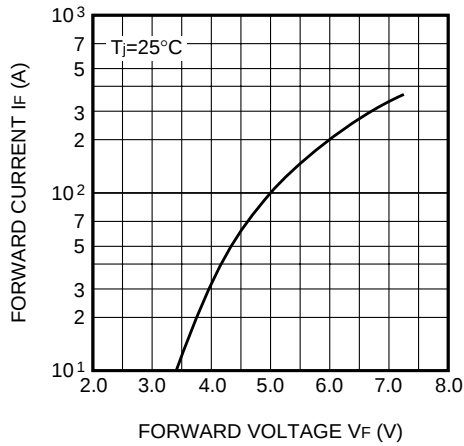
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive reverse current	T _j =25/125°C, V _{RRM} applied	—	—	0.1/1.0	mA
V _{FM}	Forward voltage	T _j =25°C, I _{FM} =100A, Instantaneous meas.	—	—	5.0	V
t _{rr}	Reverse recovery time	I _{FM} =100A, T _j =25°C, di/dt=-500A/μs, V _R =600V	—	—	0.3	μs
Q _{rr}	Reverse recovery charge		—	—	—	μC
R _{th} (j-c)	Thermal resistance	Junction to case	—	—	0.5	°C/W
R _{th} (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.5	°C/W

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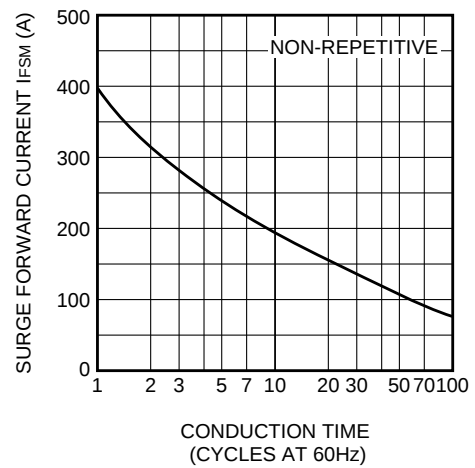
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PERFORMANCE CURVES

MAXIMUM FORWARD CHARACTERISTIC



RATED SURGE FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE

