

isc N-Channel MOSFET Transistor

STW35N65M5

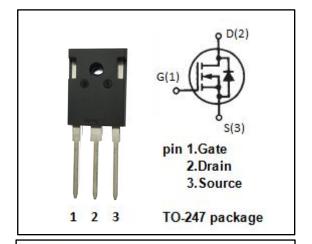
• FEATURES

- With TO-247 packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Power supply
- Switching applications

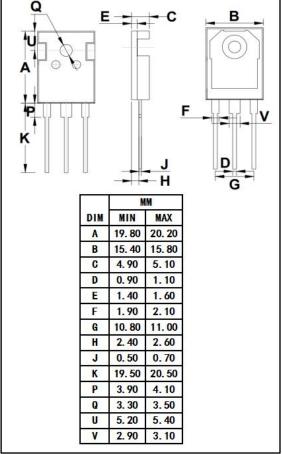


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	VALUE	UNIT
Drain-Source Voltage	650	V
Gate-Source Voltage	±25	V
Drain Current-Continuous@ T_c =25° C T_c =100° C	27 17	Α
Drain Current-Single Pulsed	108	Α
Total Dissipation	160	W
Operating Junction Temperature		$^{\circ}\!$
Storage Temperature -55~150		$^{\circ}$ C
	Drain-Source Voltage Gate-Source Voltage Drain Current-Continuous@Tc=25°C Tc=100°C Drain Current-Single Pulsed Total Dissipation Operating Junction Temperature	Drain-Source Voltage 650 Gate-Source Voltage ± 25 Drain Current-Continuous@ $T_c=25^{\circ}C$ $T_c=100^{\circ}C$ 27 17 Drain Current-Single Pulsed 108 Total Dissipation 160 Operating Junction Temperature 150

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.78	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =13.5A		85	98	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;Tc=25°C Tc=125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =27A, V _{GS} = 0 V			1.5	V



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