

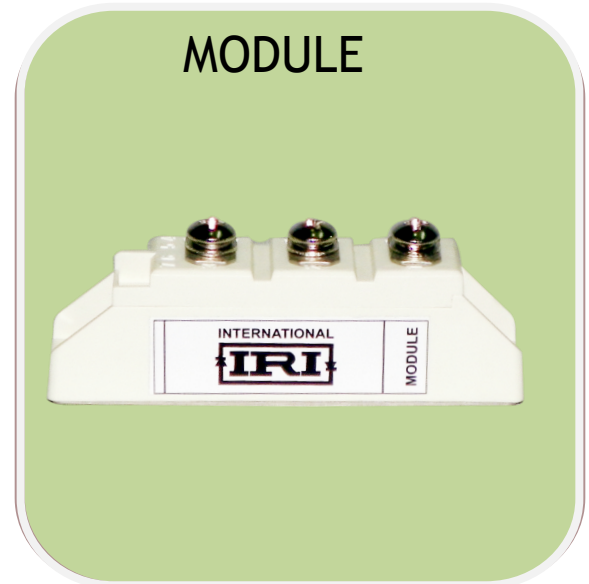
FEATURES

- Heat transfer through ceramic.
- Hard solder joints for high reliability
- Isolated base mounting

TYPICAL APPLICATIONS

- Non-controllable rectifiers for AC-AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motor

TECHNICAL DATA



DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
IRKD26/12	1200	1300
IRKD26/16	1600	1700

SYMBOL	CONDITIONS	VALUES
I_{FAV}	Sin. 180; $T_{case} = 85^{\circ}C$	31 amp.
I_{FSM} I^2t	$T_{vj}=25^{\circ}C$; 10 ms $T_{vj}=25^{\circ}C$	550 amp. 1500 A^2s
I_{RRM}	$T_{vj}=25^{\circ}C$ $T_{vj}=125^{\circ}C$	0.5mA 3 mA
V_F V_0 R_0	$T_{vj}=25^{\circ}C$ ($I_F=75$ Amp.); max $T_{vj}=125^{\circ}C$ $T_{vj}=125^{\circ}C$	1.35 V 0.85 V 6 m Ω
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	per diode/per module per diode/per module	1/0.5 $^{\circ}C/W$ 0.20/0.10 $^{\circ}C/W$ -40 to +125 $^{\circ}C$ -40 to +125 $^{\circ}C$
Mounting torque		5 Nm/Per bolt
Weight	Approx.	95 gms
$V_{(isol)}$	Ac 50 Hz rms 1 min	3000 volts
Package Outline		IR-1

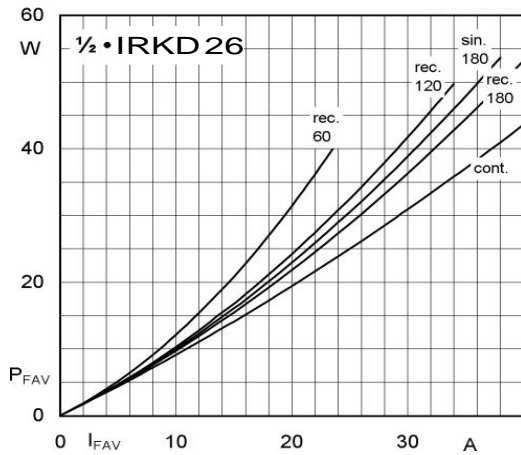


Fig. 11L Power dissipation per diode vs. forward current

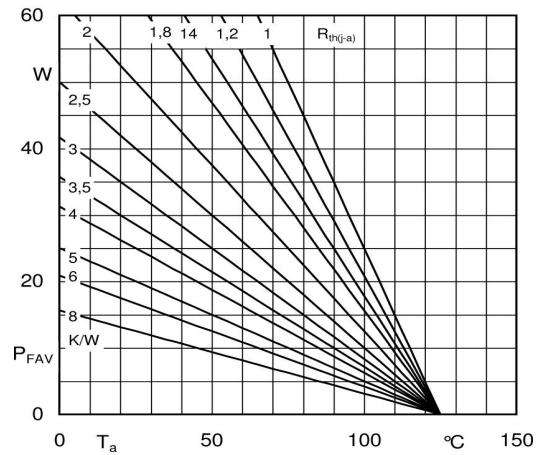


Fig. 11R Power dissipation per diode vs. ambient temperature

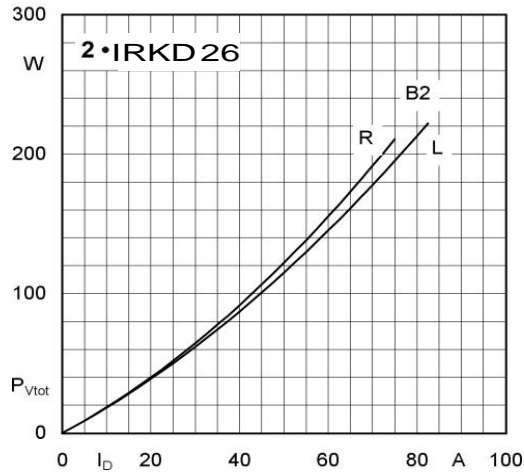


Fig. 12L Power dissipation of two modules vs. direct current

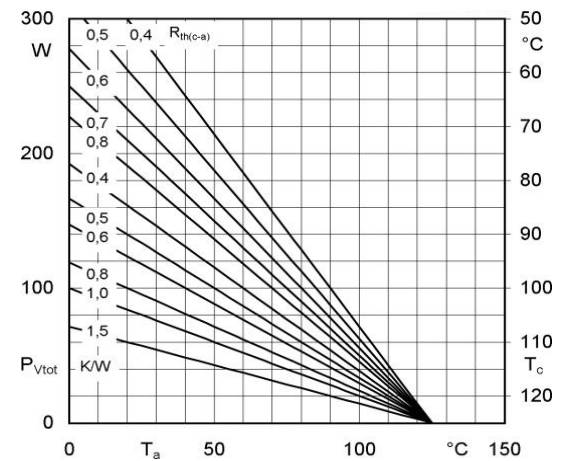


Fig. 12R Power dissipation of two modules vs. case temperature

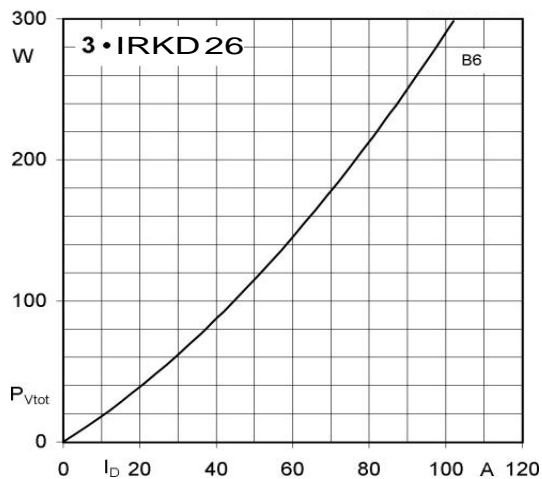


Fig. 13L Power dissipation of three modules vs. direct current

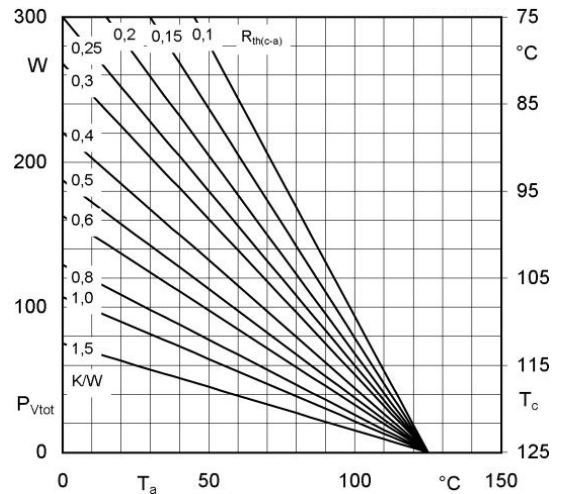


Fig. 13R Power dissipation of three modules vs. case temperature

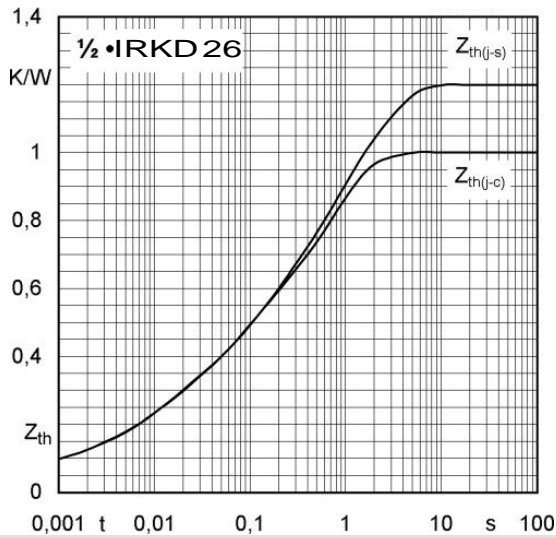


Fig. 14 Transient thermal impedance vs. time

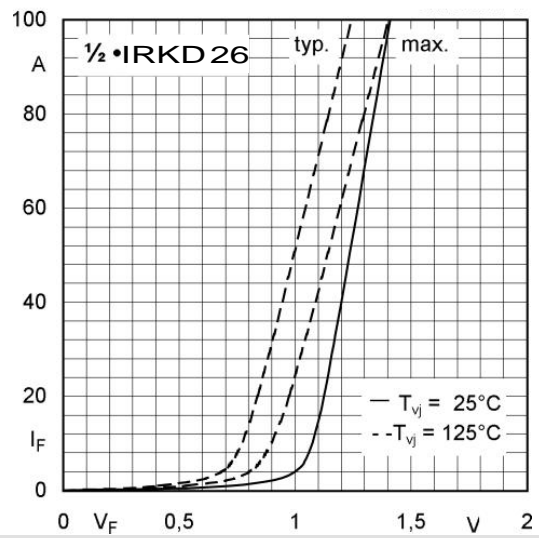


Fig. 15 Forward characteristics

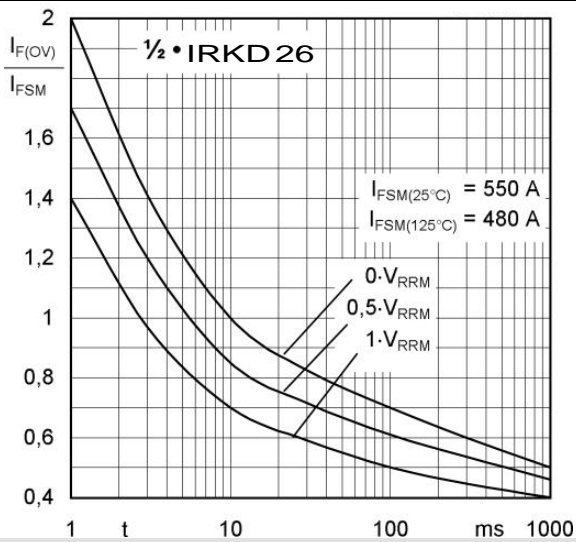
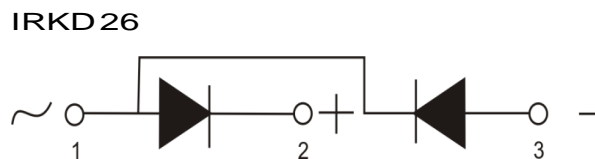
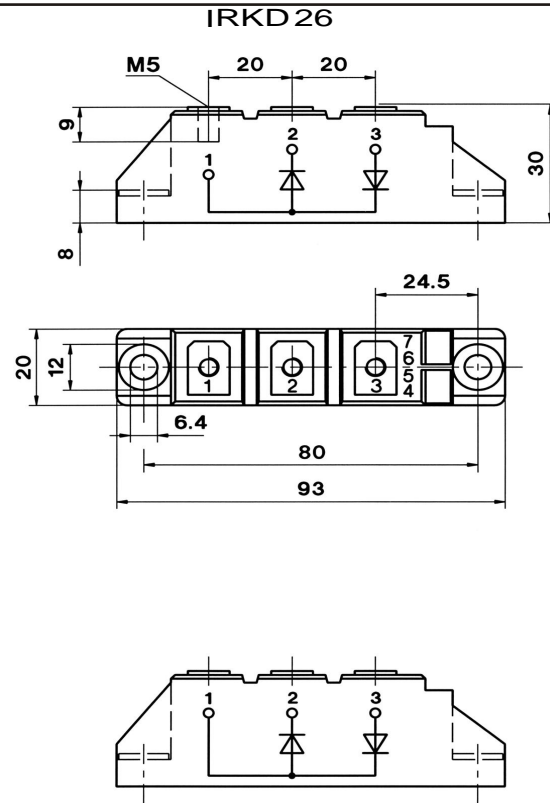


Fig. 16 Surge overload current vs. time

CIRCUIT DIAGRAM



PACKAGE OUTLINE



IR- 1

All dimension are in mm .

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