

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

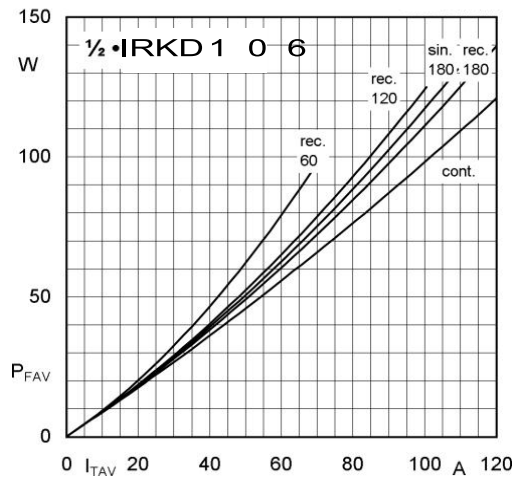
TECHNICAL DATA

MODULE

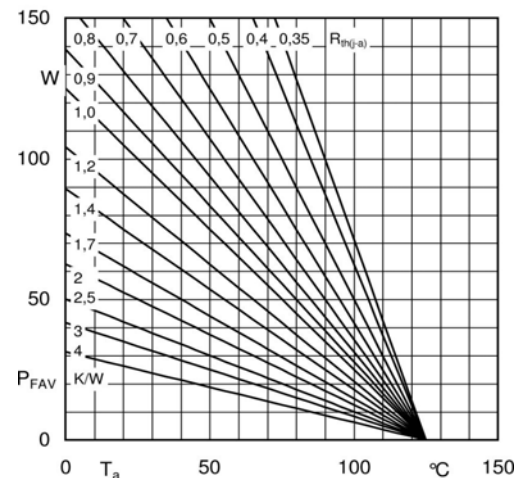


DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
IRKD106/12	1200	1300
IRKD106/16	1600	1700
IRKD106/20	2000	2100
IRKD106/22	2200	2300

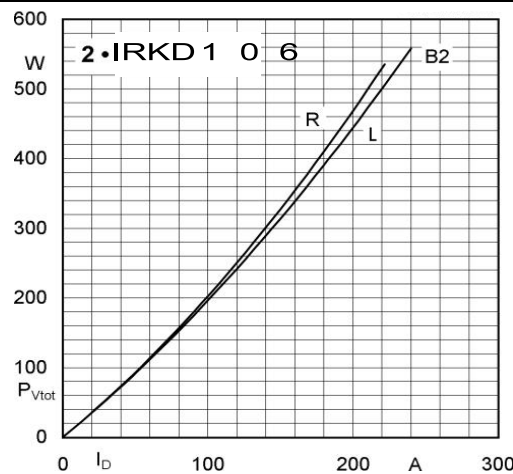
SYMBOL	CONDITIONS	VALUES
I_{FAV}	Sin. 180; $T_{case} = 85^{\circ}C$	100 amp.
I_{FSM} I^2t	$T_{vj}=25^{\circ}C$; 10 ms $T_{vj}=25^{\circ}C$	2500 amp. $31250 A^2s$
I_{RRM}	$T_{vj}=25^{\circ}C$ $T_{vj}=125^{\circ}C$	1 mA 5 mA
V_F V_0 R_0	$T_{vj}=25^{\circ}C$ ($I_F=300$ Amp.); max $T_{vj}=125^{\circ}C$ $T_{vj}=125^{\circ}C$	1.35 V 0.85 V 1.3m Ω
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	per diode/per module per diode/per module -40 to +125 $^{\circ}C$ -40 to +125 $^{\circ}C$	0.35/0.175 $^{\circ}C/W$ 0.20/0.10 $^{\circ}C/W$
Mounting torque		5 Nm/Per bolt
Weight	Approx.	95 gms
$V_{(isol)}$	Ac 50 Hz rms 1 min	3000 volts
Package Outline		IR-1



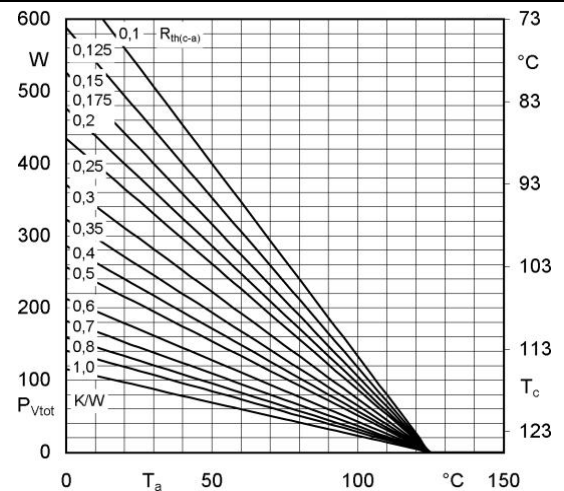
caÖK " -çİÊÊ Çäëëäë~iäçä éÊÊ ÇäçÇÊ iëK Ñçëi~ëÇ ÄiëëÉäi



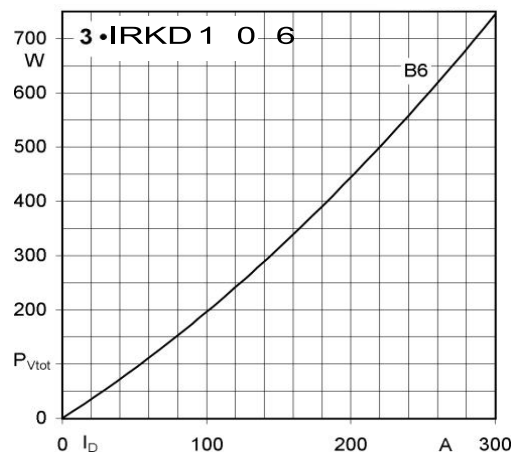
caÖK . -çİÊÊ Çäëëäë~iäçä éÊÊ ÇäçÇÊ iëK ~äÄäÉäi iÉäëÉë~iëÉ



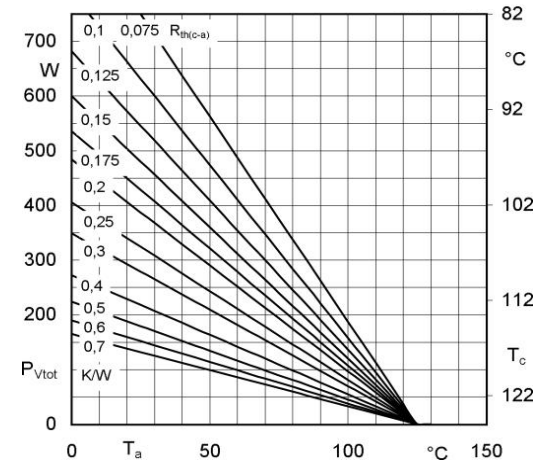
caÖK "' -çİÊÊ Çäëëäë~iäçä çÑ iÿ äçÇiäÉë iëK ÇäëÉÄi ÄiëëÉäi



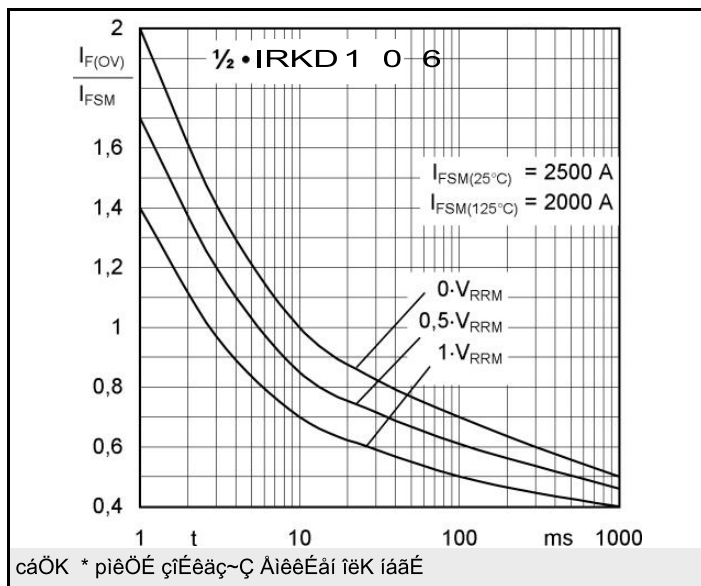
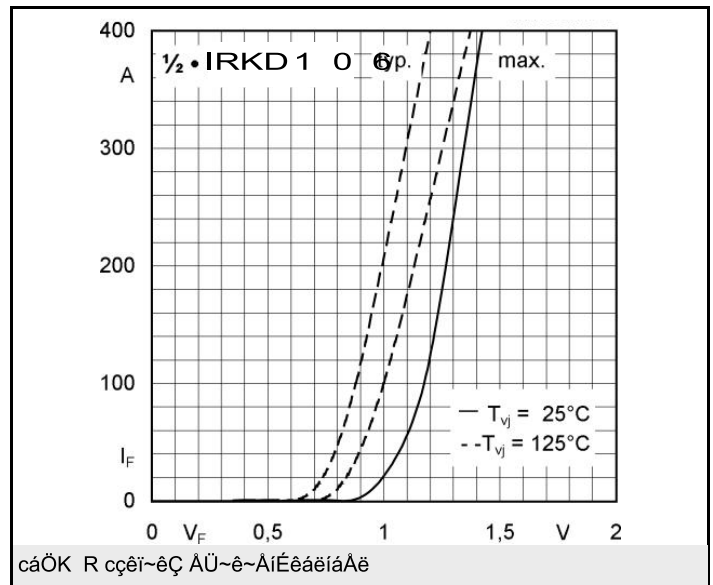
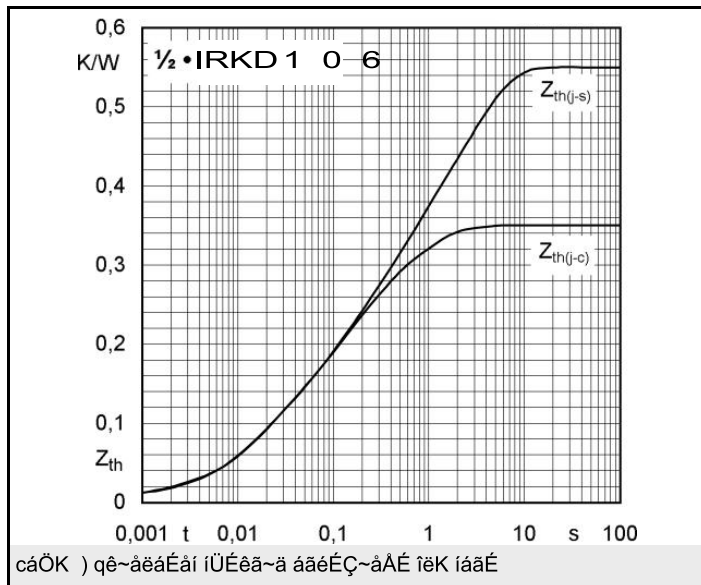
caÖK ' -çİÊÊ Çäëëäë~iäçä çÑ iÿ äçÇiäÉë ië Ä~ëÉ iÉäëÉë~iëÉ



caÖK (" -çİÊÊ Çäëëäë~iäçä çÑ iÜëÉÉ äçÇiäÉë iëK ÇäëÉÄi ÄiëëÉäi

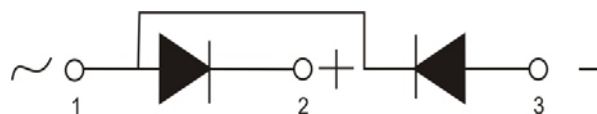


caÖK (-çİÊÊ Çäëëäë~iäçä çÑ iÜëÉÉ äçÇiäÉë iëK Ä~ëÉ iÉäëÉë~iëÉ



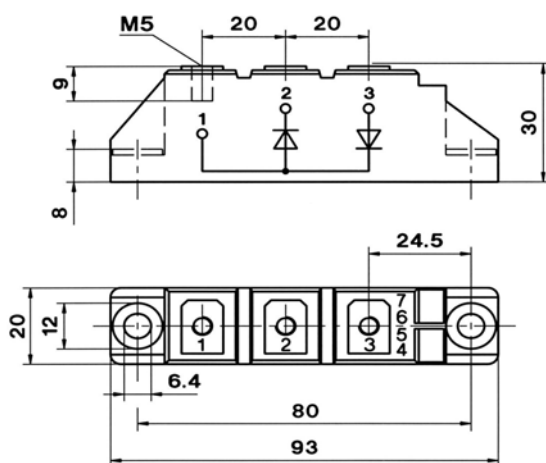
CIRCUIT DIAGRAM

IRKD 106



PACKAGE OUTLINE

IRKD 1 0 6



IR- 1