RD134　Series　4A TRIACS

DESCRIPTION：
- P+ Isolation Diffusion

- Single Mesa

- Glass Passivated

- Sensitive gate triacs in a plastic envelope

- Intended for use in general purpose bidirectional switching and phase control applications;These devices are intended to be interfaced directly to microcontrollers,logic integrated circuits and other low power gate trigger circuits

TO-126

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	600/800	V
V_{TM}	≤1.7	V
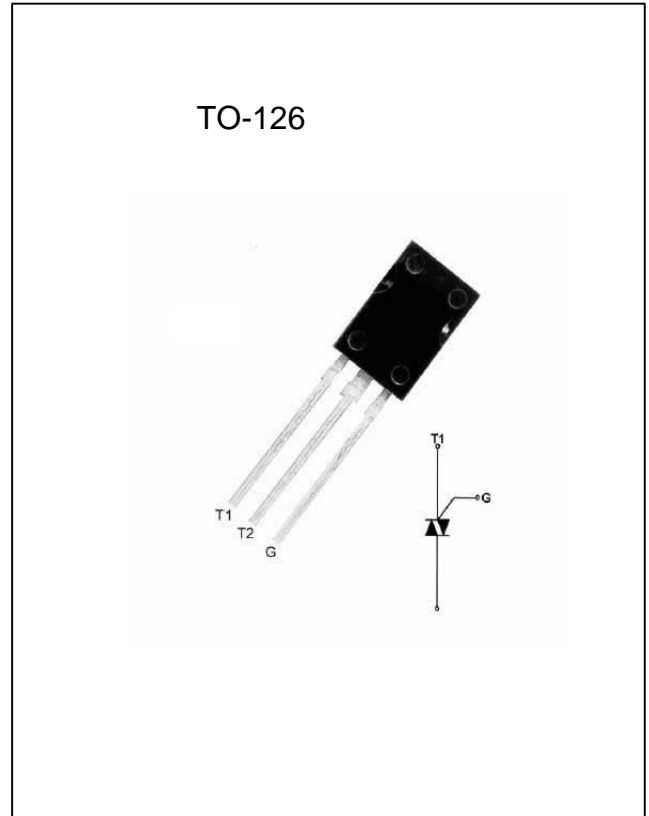
ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
Storage junction temperature range		Tstg	-40 to +150	˚C
Operrating junction temperature range		Tj	-40 to +125	˚C
Repetitive Peak Off-state Voltage	Tj=25˚C	V_{DRM}	600/800	V
Repetitive Peak Reverse Voltage	Tj=25˚C	V_{RRM}	600/800	
Non repetitive Surge Peak Off-state Voltage	tp=10ms,Tj=25˚C	V_{DSM}	700/900	V
Non repetitive Peak Reverse Voltage		V_{RSM}	700/900	
RMS on-state current (full sine wave)	Tc=110˚C	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle,Tj=25˚C)	f = 60 Hz　　t=16.7ms	I_{TSM}	27	A
	f = 50 Hz　　t=20ms		25	
I²t Value for fusing	tp=10ms	I²t	3.1	A²s
Critical rate of rise of on-state current I_T≤6A,I_G=2×I_{GT},tr≤100 ns,f=120Hz,Tj=125˚C	T2+ G+	dI/dt	50	A/μs
	T2+ G-		50	
	T2- G-		50	
	T2- G+		10	
Peak gate current　　　　tp=20us,Tj=125˚C		I_{GM}	2	A
Average gate power dissipation　　　Tj=125˚C		$P_{G(AV)}$	0.5	W

SIKA CO.,LIMITED

ELECTRICAL CHARACTERISTICS(Tj=25℃ unless otherwise specified)

Symbol	Test Condition	Quadrant		RD134 D	RD134 E	Unit
I_{GT}	V_D=12V R_L=33Ω	I-II-III IV	MAX.	5 10	10 25	mA
V_{GT}		ALL	MAX.	1.5		V
V_{GD}	V_D=V_{DRM} R_L=3.3KΩ Tj =125℃	ALL	MIN.	0.2		V
I_L	I_G=1.2I_{GT}	I-III-IV	MAX.	15	20	mA
		II	MAX.	20	35	mA
I_H	I_T =100mA		MAX.	15	20	mA
dV/dt	V_D=67%V_{DRM} gate open Tj=125℃		MIN.	5	50	V/μs

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=5A,tp=380μs	Tj=25℃	1.7	V
I_{DRM} I_{RRM}	V_D=V_{DRM} V_R=V_{RRM}	Tj=25℃	5	μA
		Tj=125℃	0.5	mA

THERMAL RESISTANCES

Symbol	Parameter		Value	Unit
$R_{th(J -C)}$	Junction to Case(AC)		4.1	℃/W

ORDERING INFORMATION

RD 134 - 600 E

RICKY TRIAC SERIES

$I_{T(RMS)}$: 4A

IGT Glass

06:V_{DRM}/V_{RRM}≥600V
08:V_{DRM}/V_{RRM}≥800V
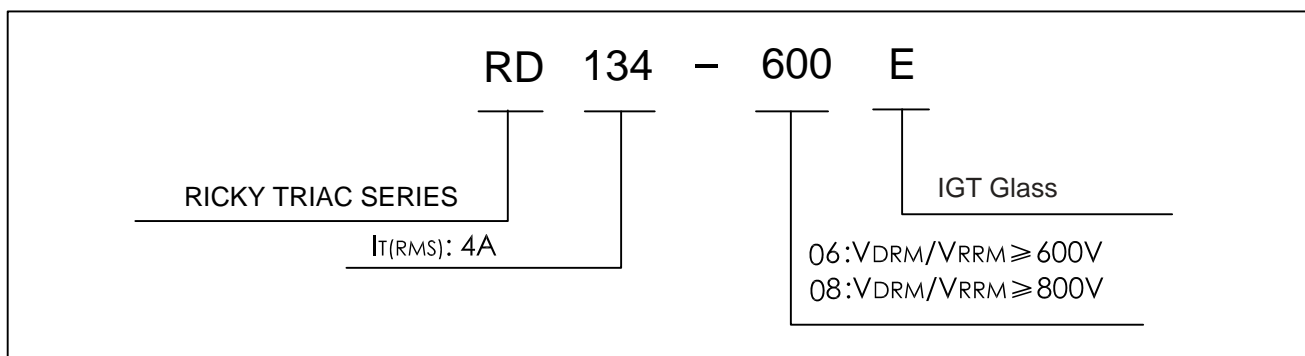
PACKAGE MECHANICAL DATA
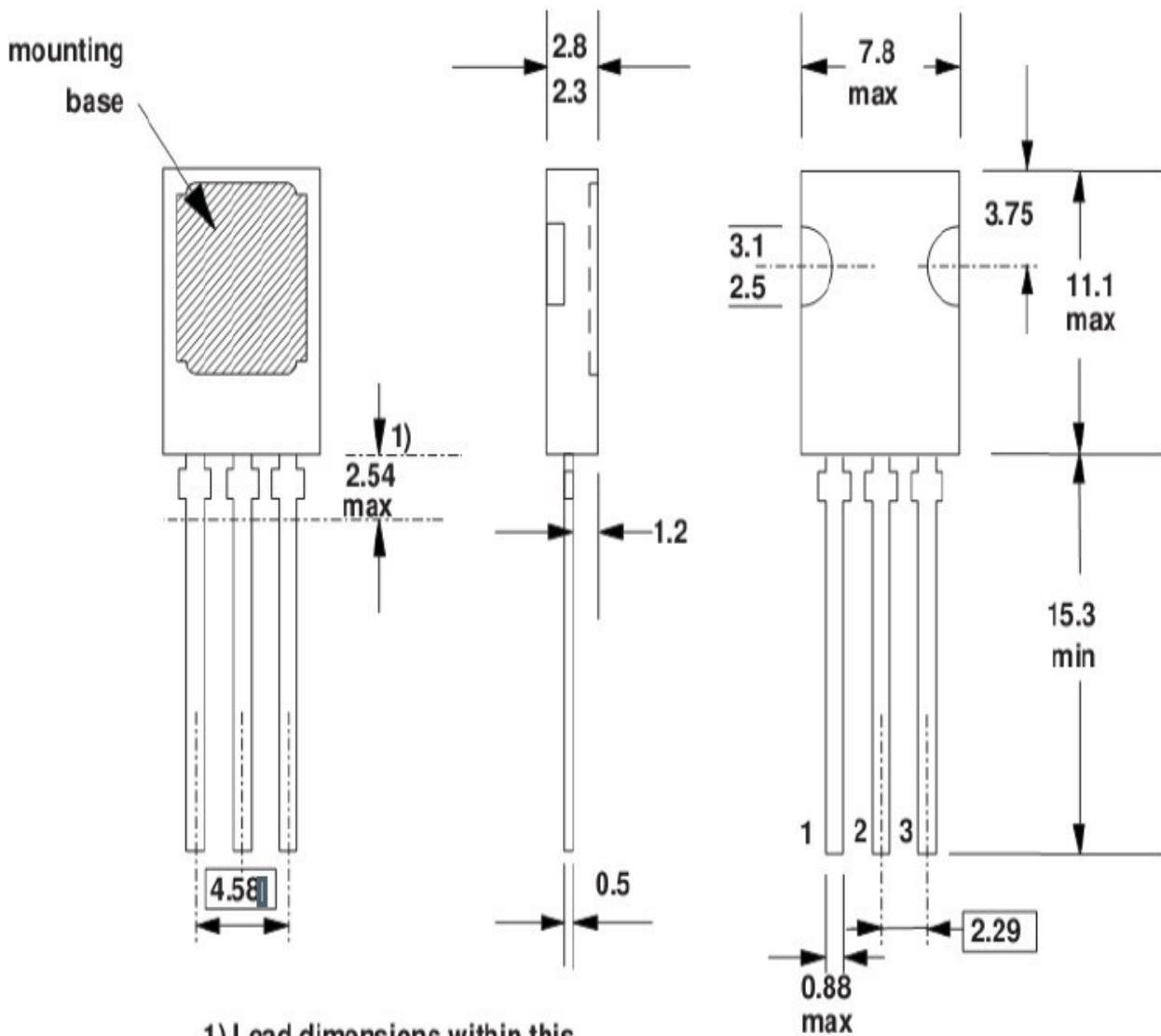
1) Lead dimensions within this
zone uncontrolled.

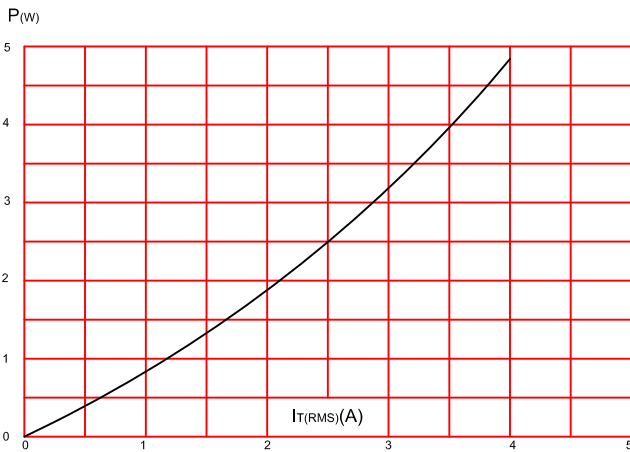FIG.1:Maximum power dissipation versus RMS on-state current(full cycle)

P(W)

IT(RMS)(A)
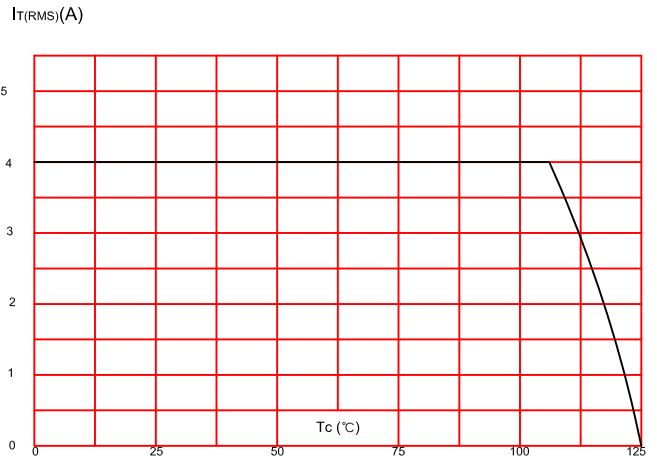
FIG.2:RMS on-state current versus case temperature(full cycle)

IT(RMS)(A)

Tc (℃)

FIG.3:On-state characteristics (maximum values).

ITM(A)

Tjmax
Vto=0.85V
Rd=60mΩ

Tj=Tjmax

Tj=25℃

VTM (V)
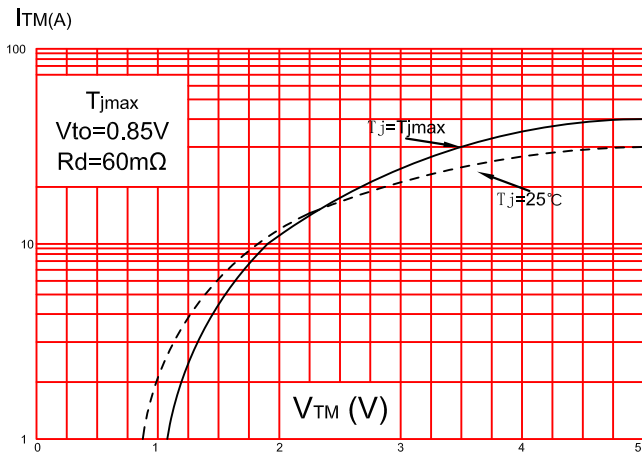
FIG.4:Surge peak on-state current versus number of cycles.

ITSM(A)

One cycle
t=20ms

Non repetitive
Tj intial=25℃

Number of cycles
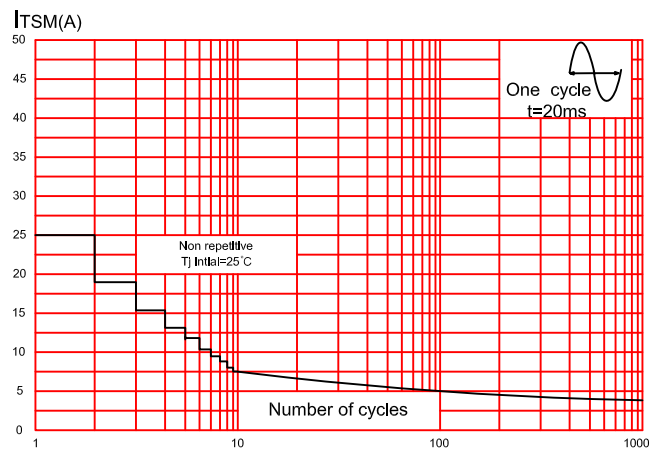
FIG.5:Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp<10ms,and corresponding value of I²t.

ITSM (A),I²t (A²s)
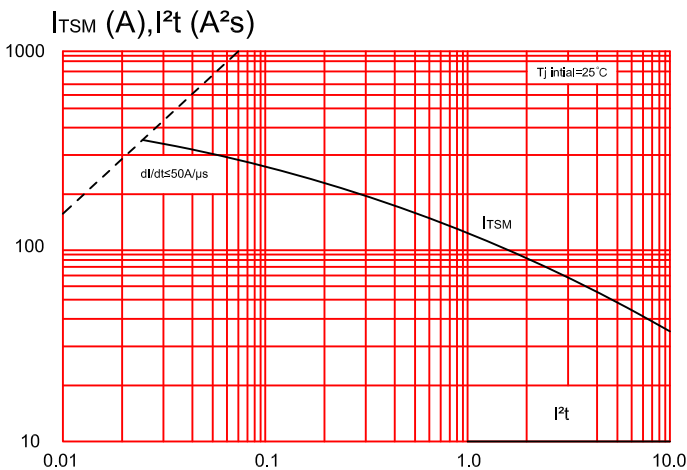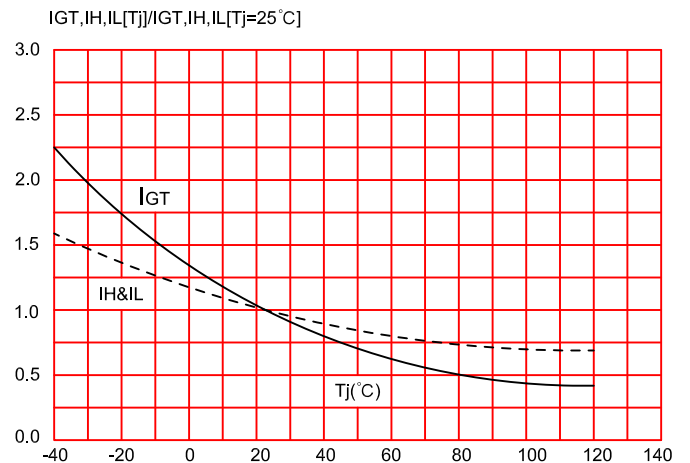
Tj intial=25℃

dI/dt≤50A/μs

ITSM

I²t

FIG.6:Relative variations of gate trigger current,holding current and latching current versus junction temperature(typical values)

IGT,IH,IL[Tj]/IGT,IH,IL[Tj=25℃]

IGT

IH&IL

Tj(℃)

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