

DTA08E

Silicon Planar Type

0.8A Bidirectional Thyristor

Features

· Low AC power control.

Peak OFF-state voltage : 400V.

· RMS ON-state current : 0.8A.

· TO-92 package.

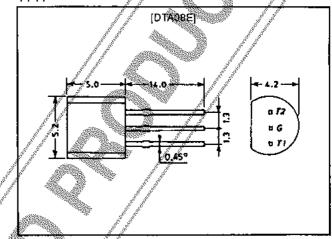
*: The gate trigger mode is shown below.

Trigger mode	Τ2	Τt	G
ī	+	-	+
i)	+	_	-
10	_	+	+
įγ	-	+	1

Package Dimensjons

unit:mm

1141



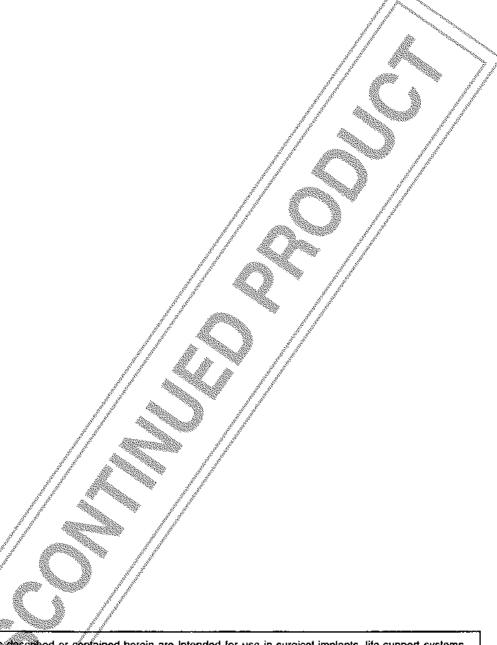
Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Copelijions	Ratings	Unit
Repetitive Peak OFF-State Voltage	Уорги		400	V
RMS ON-State Current	T(RMS)	Ta=60 C, singre-phase luft-wave	0.8	A
Surge ON-State Current	//TSM	Peak 1 cycle, 50Hz	7	Α
Amperes Squared-Seconds	Ji²τ-at	1mssts10ms	0.2	A ⁷ s
Peak Gate Power Dissipation	PGM	1250Hz, duly≤10%	1	W
Average Gate Power Dissipation	PG(AV)		0.1	W
Peak Gate Current	IGM	l≥50Hz, goly≤10%	±1	Α
Junction Temperature	Τi	and self-	125	,C
Storage Temperature	Ten		-40 to +125	.C
Weight			0.3	g

Electrical Characteristics at Ta = 25°C

Pagamoler	Symbol	Conditions		Ratings		
			mln	lyp	max	Unit
Repetitive Peak OFF State Current	DAW	Tj=125°C, Vo=VDRM			0.1	mΑ
ON-State Voltage	/ /V _T	IT=1.2A			1.5	٧
Critical Rate of Rise of OFF-State Voltage	//(dv/dt)c	Tj×125°C, VD=VDRM	1			V/µs
Holding Curreni	Ιн	V _D u24V		5	10	ΜA
Gate Trigger Current (.L.)	^I GT	VD=12V, RL=100Ω			5	mA
Gate Trigger Current (II)	I _{GT}	VD=12V, RL=100Ω			10	mA
Gate Trigger Current(川)	^I GT	V _D =12V, R _L =100Ω			10	mA
Gate Trigger Corrent (IV)	^I GT	Vp=12V, BL=100Ω			5	mA
Gate Trigger Vollaget (I)	V _G T	$V_D=12V$, $R_L=100\Omega$			1	V
Gate Trigger Vollage (1)	V _{GT}	V _D =12V, R _L ≈100Ω			1.5	V
Gate Trigger Voltage (Ш)	VGT	VD=12V, RL=100Ω			1.5	٧
Gate Trigger Voltage (N)	V _{G1}	V _D =12V, R _L =100Ω			1	V
Gate Nontrigger Voltage	V _{GO}	Tj=125°C, VD=1/2VDRM	0.1			Ī
Thermal Resistance	Rth(j∙a)	Between junction and case, AC			75	.c.w



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