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# SanKen SANKEN ELECTRIC DGG4015

VCE(sat) Max. 1.4V (at VGE=10V, IC=5A)

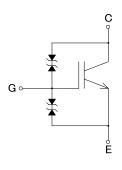
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# Features Package • Built-in zener Di between collector gate VCL typ. 400V TO252 • Built-in gate protection diode • SMD PKG TO252 • Low saturated voltage

### **Applications**

Ignitor

### Equivalent circuit



#### Absolute maximum ratings

	<u>.</u>	(1	Ta=25°C)
Characteristic	Symbol	Rating	Unit
Collector to Emitter Voltage	VCES	CLAMPED	V
Gate to Emitter Voltage	VGE	$\pm 20$	V
Continuous Collector Current	IC(DC)	15	А
Maximum Allowable Power Dissipation	РС	55 (Tc=25°C)	W
Operating Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 to +150	°C

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#### Electrical characteristics

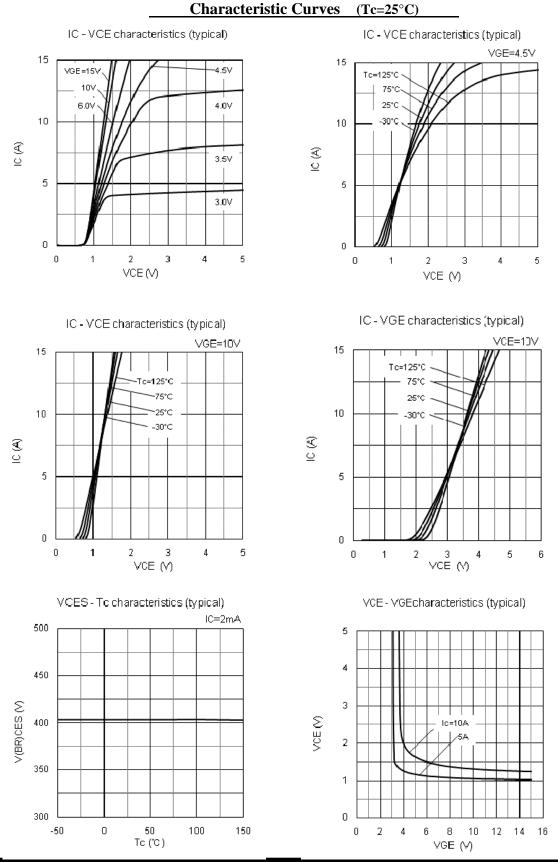
		1			(Ta	=25°C)
Characteristic	Symbol	Test Conditions	Limits			Unit
			MIN.	TYP.	MAX.	emi
Collector to Emitter Breakdown Voltage	V(BR)CES	IC= 2mA, VGE=0V	375	400	425	v
Gate to Emitter Breakdown Voltage	V(BR)GES	IG=±100μA, VCE=0V	±20			V
Emitter to Collector Breakdown Voltage	V(BR)ECS	IEC=10mA, VGE=0V	20			V
Collector to Emitter Leakage Current	ICES	VCE=300V, VGE=0V			100	μΑ
Gate to Emitter Leakage Curren	IGES	VGE=±20V,VCE=0V			±100	μΑ
Gate Threshold Voltage	VGE(th)	VCE= 10V, IC=1mA	1.4	1.8	2.2	V
Collector to Emitter Saturation Voltage	VCE(sat)	VGE=4.5V, IC= 5A		1.2	1.5	V
Collector to Emitter Saturation Voltage	VCE(sat)	VGE=10V, IC= 5A		1.1	1.4	V
Collector to Emitter Saturation Voltage	VCE(sat)	VGE=10V, IC= 10A		1.4	1.7	V
Input Capacitance	Cies			700		
Output Capacitance	Coes	VCE=10V f=1.0MHz VGE=0V		300		pF
Reverse Transfer Capacitance	Cres			220		
Self Clamped Inductive Switching Energy	ES/B	L=5mH, Rg=200Ω	150			mJ

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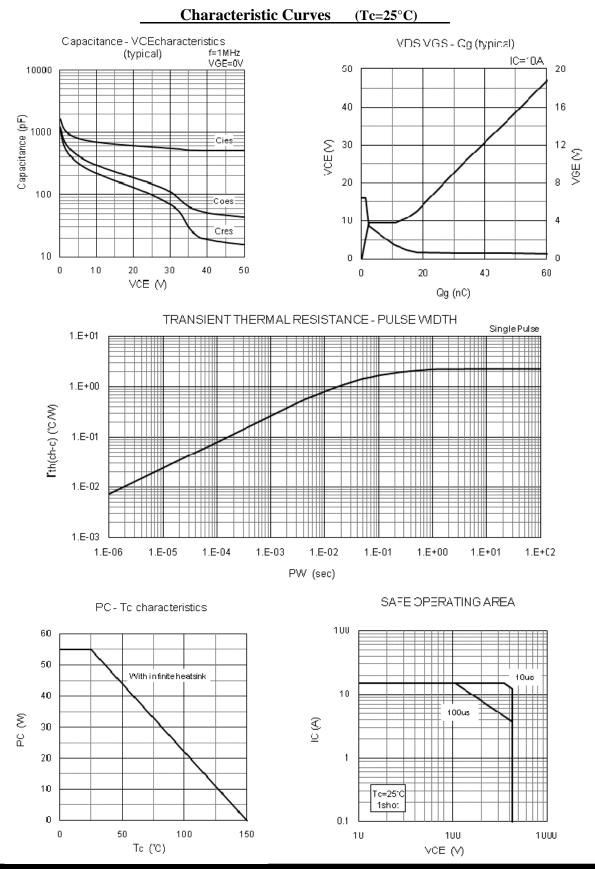


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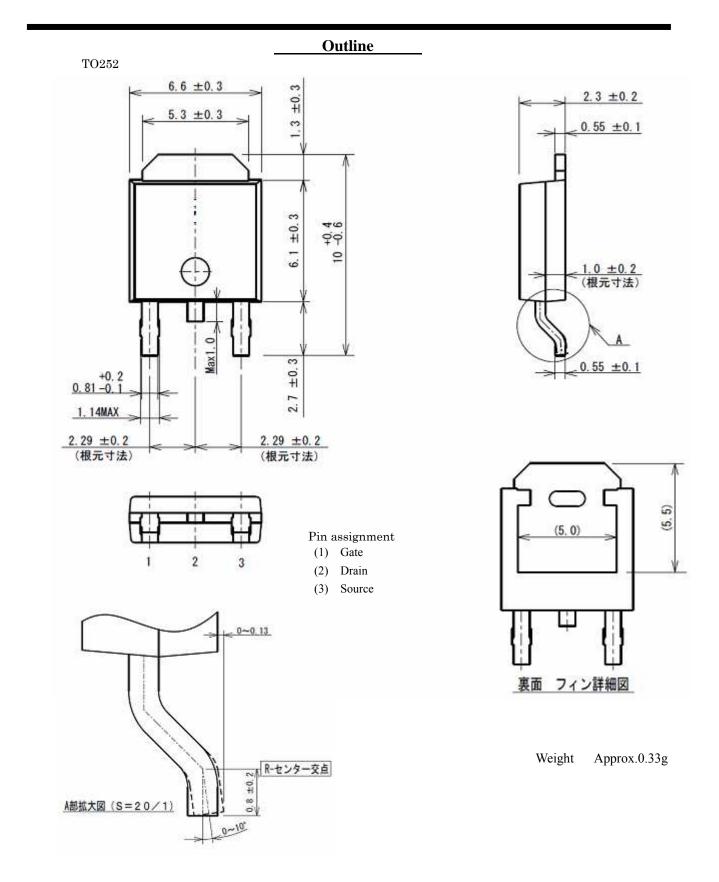
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