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Sanken SANKEN ELECTRIC DGG4015

Nov. 2011

	Packag	e					
 Built-in zener Di between collector gate VCL typ. 400V Built-in gate protection diode SMD PKG TO252 Low saturated voltage VCE(sat) Max. 1.4V (at VGE=10V, IC=5A) 		TO252					
Applications • Ignitor	<u>Equiva</u>	Equivalent circuit					
Absolute maximum ratings							
Characteristic	Symbol	Rating	Unit				
			Omt				
Collector to Emitter Voltage	VCES	CLAMPED	V				
Collector to Emitter Voltage Gate to Emitter Voltage	VCES VGE	CLAMPED ±20	V V V				
Collector to Emitter Voltage Gate to Emitter Voltage Continuous Collector Current	VCES VGE IC(DC)	CLAMPED ±20 15	V V A				
Collector to Emitter Voltage Gate to Emitter Voltage Continuous Collector Current Maximum Allowable Power Dissipation	VCES VGE IC(DC) PC	CLAMPED ±20 15 55 (Tc=25°C)	V V A W				
Collector to Emitter Voltage Gate to Emitter Voltage Continuous Collector Current Maximum Allowable Power Dissipation Operating Junction Temperature	VCES VGE IC(DC) PC Tj	CLAMPED ±20 15 55 (Tc=25°C) 150	V V A W °C				

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Electrical characteristics

					(Ta=	=25°C)
Characteristic	Symbol	Test Conditions	Limits			Unit
			MIN.	TYP.	MAX.	Unit
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		ŝ	V
Emitter to Collector Breakdown Voltage	V(BR)ECS	IEC=10mA, VGE=0V	20	5	Ó	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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