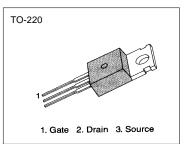
HIGH VOLTAGE POWER SWITCH SWITCHING APPLICATION

- High Speed Switching
- Wide SOA
- High Collector-Base Voltage

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	1200	V
Collector-Emitter Voltage	V _{CEO}	800	V
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current (DC)	lc	3.5	Α
Collector Current (Pulse)	I _{CP}	10	Α
Base Current (DC)	I _B	1.5	Α
Collector Dissipation	Pc	60	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ 150	°C



* Pulse Test: Pulse Width = 5ms, Duty Cycle≤10%

ELECTRICAL CHARACTERISTICS (Tc =25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Base Breakdown Voltage	BV _{CBO}	$I_{C} = 1mA, I_{E} = 0$	1200			V
Collector Emitter Breakdown Voltage	BV _{CEO}	$I_{\rm C} = 5 {\rm mA}, I_{\rm B} = 0$	800			V
Emitter Base Breakdown Voltage	BV _{EEO}	$I_E = 1 m A, I_C = 0$	7			V
Collector Cut off Current	I _{CBO}	$V_{CB} = 1200V, I_E = 0$			10	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB}=7V,\ I_C=0$			10	μΑ
DC Current Gain	h _{FE} 1	$V_{CE} = 5V, I_C = 0.2A$	10		40	
	h _{FE} 2	$V_{CE} = 5V, I_{C} = 0.8A$	8			
Collector Emitter Saturation Voltage	V _{CE} (sat)	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.2$ A			2.0	V
Base Emitter Saturation Voltage	V _{BE} (sat)	$I_{C} = 1A$, $I_{B} = 0.2A$			1.5	V
		$V_{CB} = 10V, I_E = 0, f = 1MHz$				
Output Capacitance	C _{OB}	$V_{CC} = 400V,$		50		pF
Turn On Time	t _{ON}	$I_{C} = 2A = 5I_{B1} = -2.5 \bullet I_{B2}$			0.5	μs
Storage Time	t _{STG}	$R_L = 200\Omega$			2.0	μs
Fall Time	t _F				0.25	μs

THERMAL CHARACTERISTICS

Characteristic	Symbol	Мах	Unit
Thermal Resistance, Junction to Case	Rθ jC	2.08	°C/W



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