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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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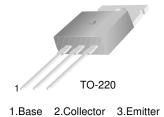




KSD5018

Built-in Resistor at B-E for Motor Drive

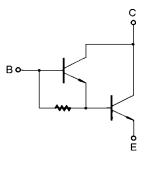
• High Voltage Power Darlington TR



NPN Silicon Darlington Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Sym- bol	Parameter	Value	Units
V _{CBO}	Collector- Base Voltage	600	V
V _{CEO}	Collector- Emitter Voltage	275	V
V _{EBO}	Emitter Base Voltage	10	V
I _C	Collector Current (DC)	4	Α
I _{CP}	*Collector Current (Pulse)	6	Α
I _B	Base Current	0.5	Α
P _C	Collector Dissipation (T _C =25°C)	40	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C



Electrical Characteristics T_{C} =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	Collector-Emitter Sustaining Voltage	$I_C = 1.5A$, $I_B = 0.05A$, $L = 25mH$	275		V
BV _{CER}	Collector-Emitter Breakdown Voltage	$I_C = 1 \text{mA}, R_{BE} = 330 \Omega$	600		V
I _{CES}	Collector Cut-off Current	V _{CE} = 500V		1	mA
I _{EBO}	Emitter Cut-off Current	V _{EB} = 10V, I _C = 0		1	mA
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 2A, I_B = 5mA$		1.5	V
		$I_C = 3A, I_B = 20mA$		1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = 2A, I_B = 5mA$		2	V

Typical Characteristics

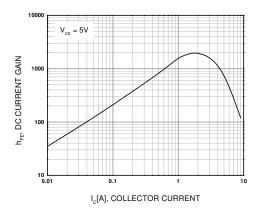


Figure 1. Static Characteristic

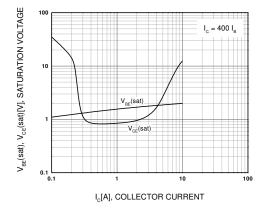


Figure 2. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

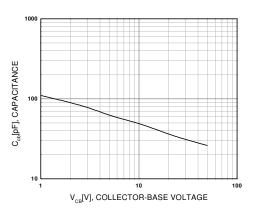


Figure 3. Collector Output Capacitance

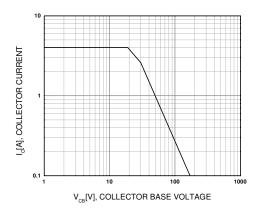


Figure 4. Safe Operating Area

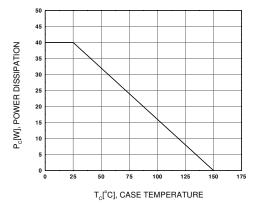
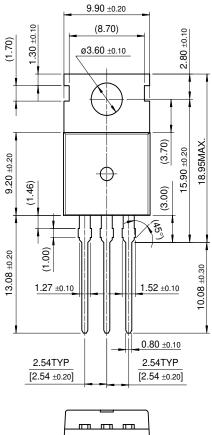


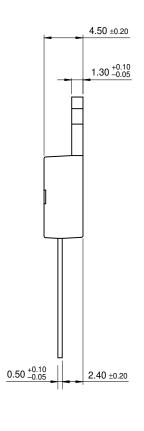
Figure 5. Power Derating

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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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