DESCRIPTION

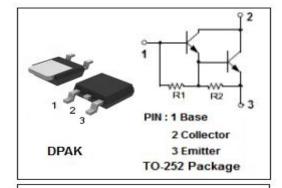
- · High DC current gain
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max) @I_C= 2.0A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

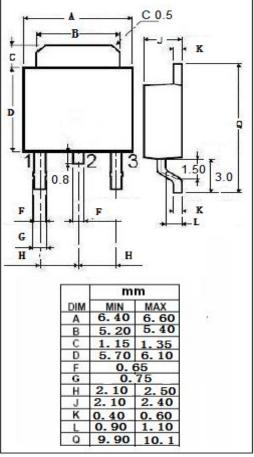
APPLICATIONS

 Relay drivers, High speed inverters, converters and other general high-current switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V_{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	3	A	
I _{CP}	Collector Current-Pulse	6	A	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	15	W	
Тл	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







isc NPN Epitaxial Planar Silicon Transistor

2SD1817

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 4mA			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 4mA			2.0	V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _B = 0	80			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
І _{СВО}	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			2.5	mA
h _{FE1}	DC Current Gain	I _C = 1A; V _{CE} = 2V	2000			
h _{FE2}	DC Current Gain	I _C = 2A; V _{CE} = 2V	1000			

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