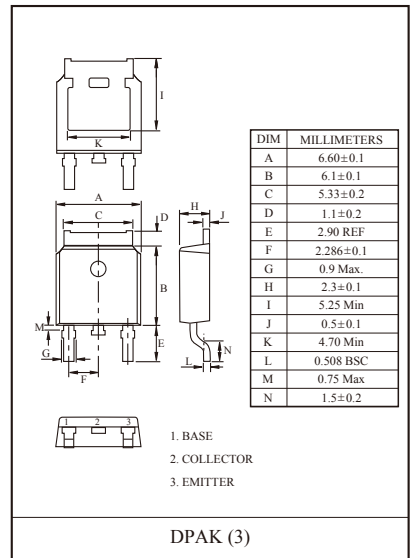
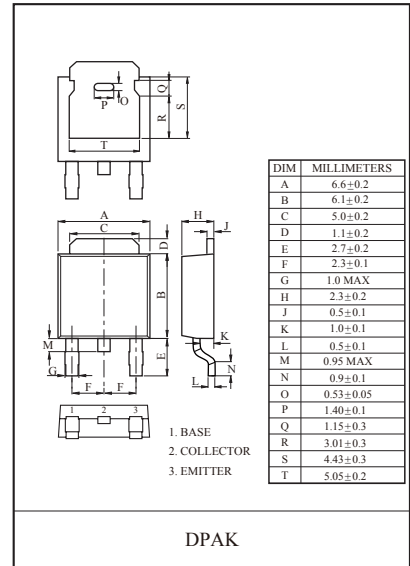


**HIGH VOLTAGE SWITCHING.
POWER SUPPLY SWITCHING FOR TELEPHONES.**

FEATURES

- High Breakdown Voltage, Typically : $BV_{CEO}=-400V$.
- Low Collector Saturation Voltage.
: $V_{CE(sat)}=-0.5V(\text{Max.})$ at $(I_C=0.5A)$
- High Switching Speed, Typically
: $t_f \cong 0.4\mu S$ at $I_C=-1A$
- Wide Safe Operating Area (SOA)



MAXIMUM RATING (Ta=25 °C)

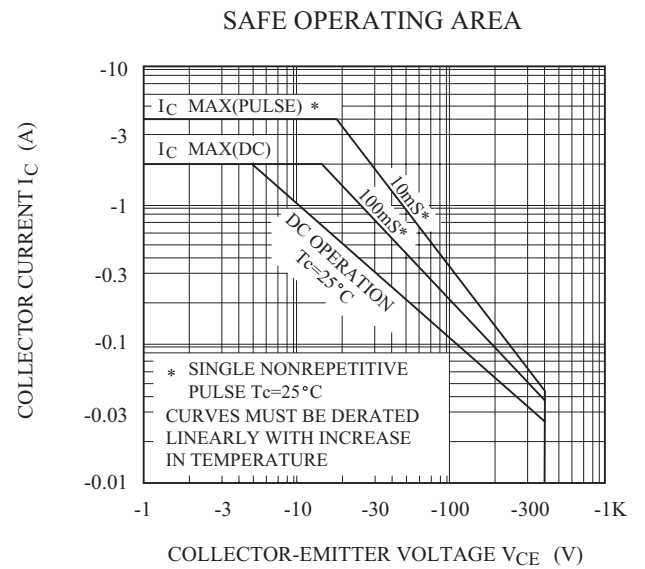
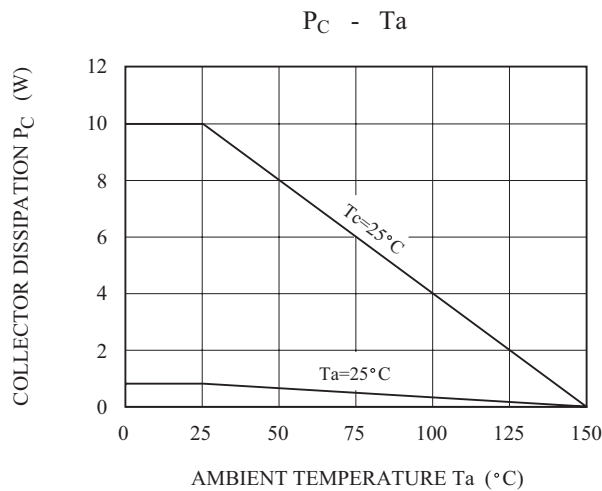
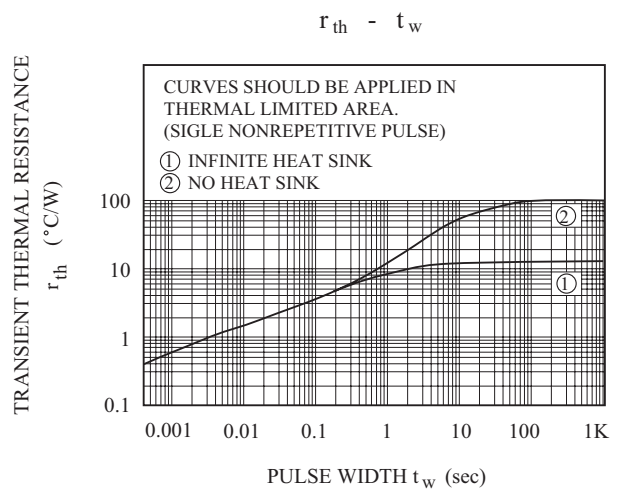
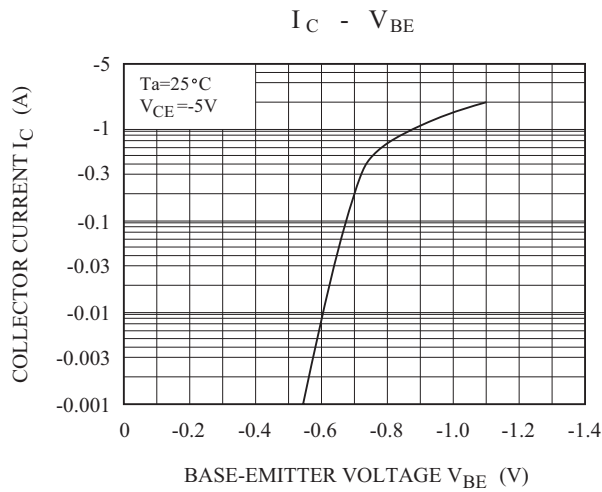
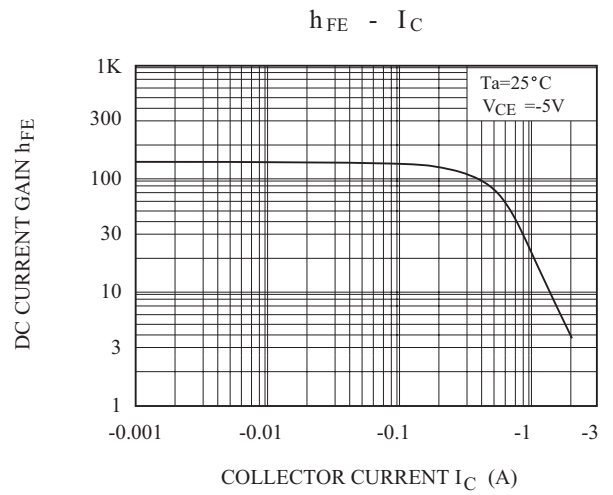
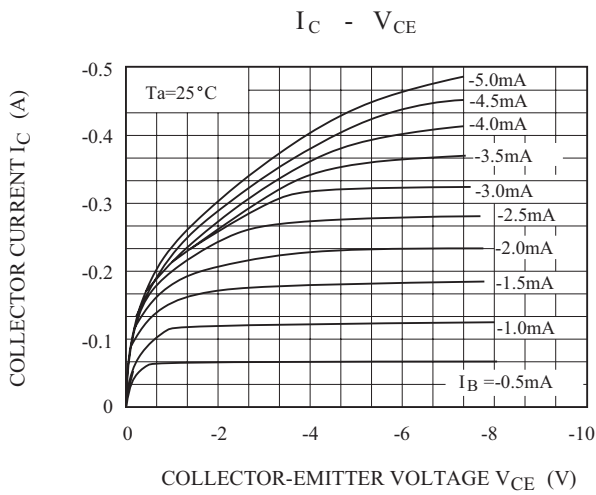
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-400	V
Collector-Emitter Voltage		V_{CEO}	-400	V
Emitter-Base Voltage		V_{EBO}	-7	V
Collector Current	DC	I_C	-2.0	A
	Pulse	I_{CP}	-4.0	
Collector Power Dissipation	Ta=25°C	P_C	1.0	W
	Tc=25°C		10	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut of Current		I_{CBO}	$V_{CB}=-400V$	-	-	-1.0	μA
Emitter Cut of Current		I_{EBO}	$V_{EB}=-5V$	-	-	-1.0	μA
Collector-Base Breakdown Voltage		BV_{CBO}	$I_C=-50\mu A$	-400	-	-	V
Collector-Emitter Breakdown Voltage		BV_{CEO}	$I_C=-1mA$	-400	-	-	V
Emitter-Base Breakdown Voltage		BV_{EBO}	$I_E=-50\mu A$	-7	-	-	V
DC Current Gain	$h_{FE}(1)$ Note		$V_{CE}=-5V, I_C=-100mA$	56	100	180	
	$h_{FE}(2)$ Note		$V_{CE}=-5V, I_C=-500mA$	45	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=-500mA, I_B=-100mA$	-	-0.3	-0.5	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=-500mA, I_B=-100mA$	-	-	-1.2	V
Transition Frequency		f_T	$V_{CE}=-10V, I_E=-100mA, f=5MHz$	-	18	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=-10V, I_E=0mA, f=1MHz$	-	30	-	pF
Switching Time	Turn-on Time	t_{on}		-	0.2	-	μS
	Storage Time	t_{stg}		-	1.8	-	
	Fall Time	t_f		-	0.4	-	

Note : $h_{FE}(1)$ Classification O:56~120, Y:82~180.
 $h_{FE}(2)$ Classification O:Min 30. Y:Min 60.

KTA1862D



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