

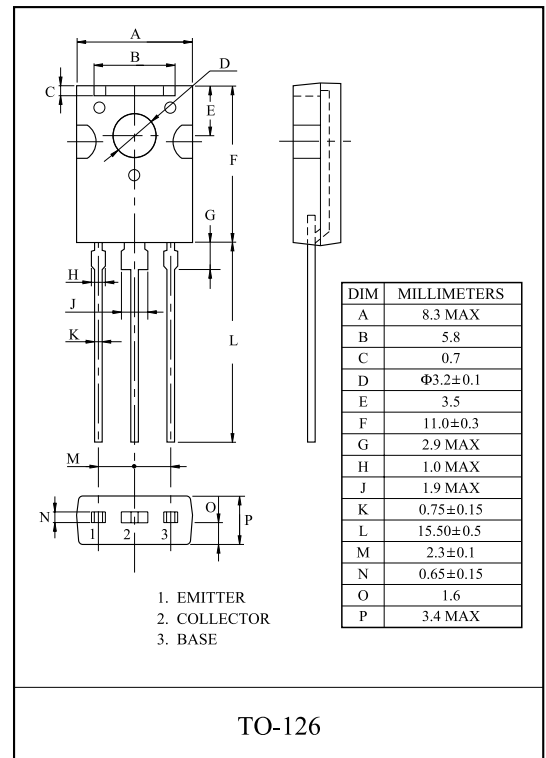
HIGH VOLTAGE APPLICATION.  
DC-DC CONVERTER.  
LOW POWER SWITCHING REGULATOR.

### FEATURES

- High Breakdown Voltage.  
:  $V_{CE0} = -400V$
- Low Collector Saturation Voltage  
:  $V_{CE(sat)} = -1V(max.)$ , ( $I_C = -100mA$ ,  $I_B = -10mA$ )
- High Speed Switching.

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	-400	V
Collector-Emitter Voltage		$V_{CEO}$	-400	V
Emitter-Base Voltage		$V_{EB0}$	-7	V
Collector Current	DC	$I_C$	-0.5	A
	Pulse	$I_{CP}$	-1	
Base Current		$I_B$	-0.25	A
Collector Power Dissipation	Ta=25	$P_C$	1.5W	W
	Tc=25	$P_C$	1.5W	
Junction Temperature		$T_j$	150	
Storage Temperature		$T_{stg}$	-55 150	



### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Base Voltage		$V_{(BR)CBO}$	$I_C = -100 \mu A$ , $I_E = 0$	-400	-	-	V
Collector Emitter Voltage		$V_{(BR)CEO}$	$I_C = -1mA$ , $I_B = 0$	-400	-	-	
Collector Cutoff Current		$I_{CBO}$	$V_{CB} = -400V$ , $I_E = 0$	-	-	-10	$\mu A$
Emitter Cutoff Current		$I_{EBO}$	$V_{EB} = -5V$ , $I_C = 0$	-	-	-10	
DC Current Gain		$h_{FE}$ (Note)	$V_{CE} = -5V$ , $I_C = -100mA$	60	-	200	-
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C = -100mA$ , $I_B = -10mA$	-	-	-1	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C = -100mA$ , $I_B = -10mA$	-	-	-1.2	
Switching Time	Turn On Time	$t_{ON}$	$I_C = -100mA$ , $R_L = 1.5k$	-	-	1	$\mu S$
	Storage Time	$t_{stg}$	$I_{B1} = -10mA$ , $I_{B2} = 20mA$	-	-	4	
	Fall Time	$t_f$	$V_{CC} = -150V$	-	-	1	

Note :  $h_{FE}$  Classification O:60 120, Y:100 200

