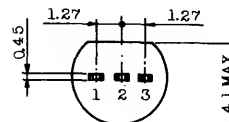
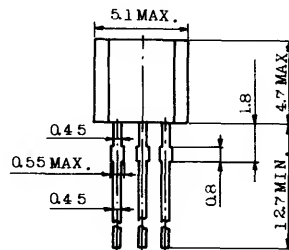


TEC9012

Unit in mm

- High h_{FE} : $h_{FE}=96 \sim 300$
- 1W Output Applications
- Complementary to TEC9013



1. EMITTER
2. BASE
3. COLLECTOR

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	-30	V
Collector-Emitter Voltage	V _{CE0}	-25	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-800	mA
Base Current	I _B	80	mA
Collector Power Dissipation	P _C	625	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

JEDEC	TO-92
EIAJ	SC-43
TOSHIBA	2-5F1F

Weight : 0.21g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-30V, I_E=0$	-	-	-100	nA
Emitter- Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA$	-30	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-1V, I_C=-50mA$	96	-	300	
	$h_{FE(2)}$	$V_{CE}=-1V, I_C=-500mA$	40	70	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=20mA$	-	-0.19	-0.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-1V, I_C=-50mA$	-0.6	-	-0.75	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-500mA, I_B=-20mA$	-	-0.91	-1.20	V

Note : hFE(1) Classification F : 96 ~ 135, G : 118 ~ 166, H : 144 ~ 202
I : 176 ~ 246, J : 214 ~ 300

