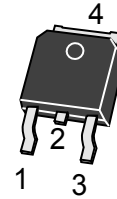


Features

- High DC Current Gain
- Built-in a Damper Diode at E-C
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

TO-252-2L



1.BASE

2/4. COLLECTOR

3.EMITTER

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83°C/W Junction to Ambient

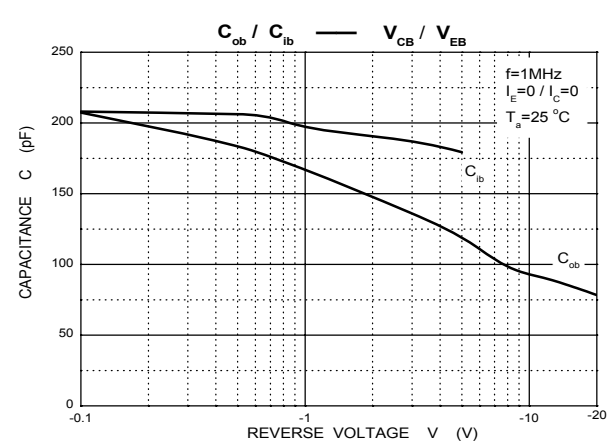
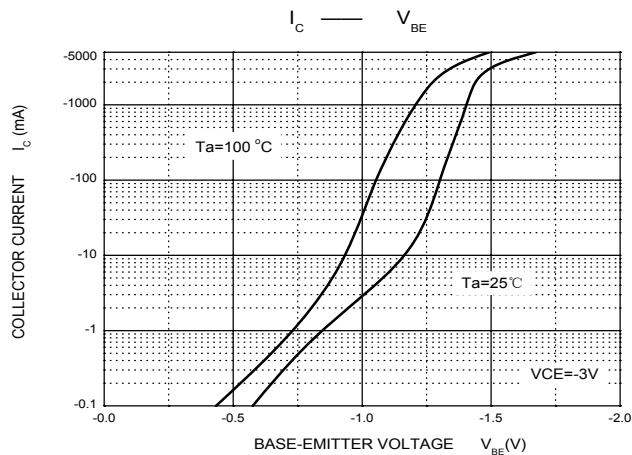
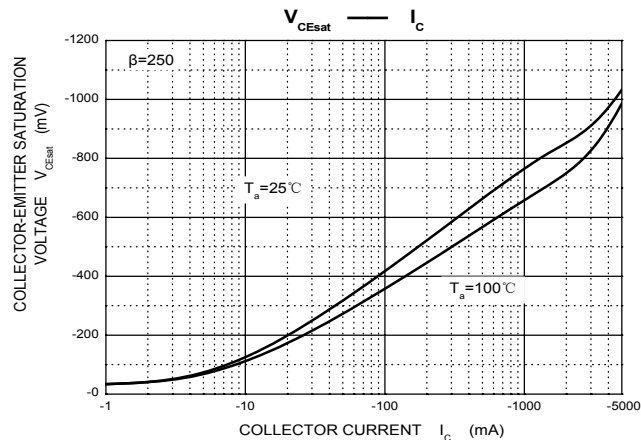
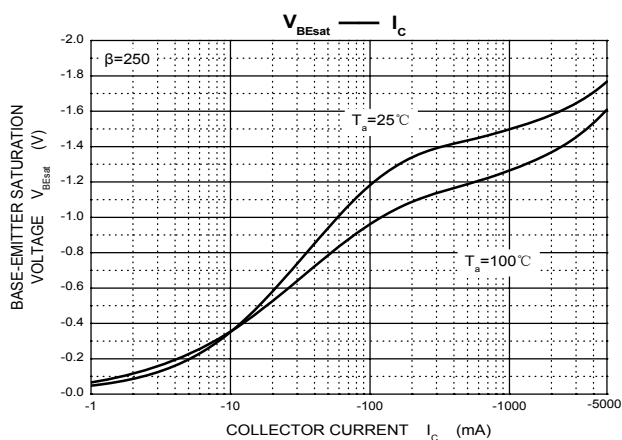
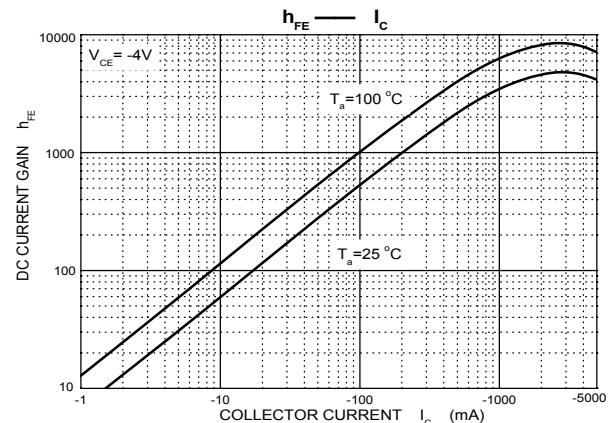
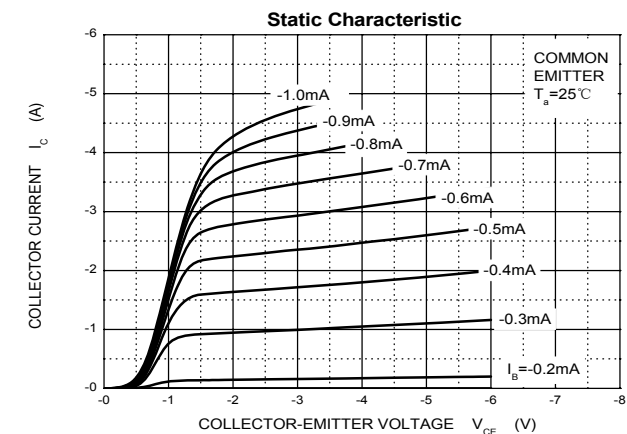
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I_C	-8	A
Power Dissipation	P_D	1.5	W

Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100			V	$I_C=-1\text{mA}$, $I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-100			V	$I_C=-10\text{mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-10\text{mA}$, $I_C=0$
Collector Cutoff Current	I_{CBO}			-10	μA	$V_{CB}=-100\text{V}$, $I_E=0$
Collector-Emitter Cutoff Current	I_{CEO}			-10	μA	$V_{CE}=-50\text{V}$, $I_B=0$
Emitter Cutoff Current	I_{EBO}			-2	mA	$V_{EB}=-5\text{V}$, $I_C=0$
DC Current Gain	$h_{FE(1)}$	1000		12000		$V_{CE}=-4\text{V}$, $I_C=-4\text{A}$
	$h_{FE(2)}$	100				$V_{CE}=-4\text{V}$, $I_C=-8\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-2.0	V	$I_C=-4\text{A}$, $I_B=-16\text{mA}$
				-4.0	V	$I_C=-8\text{A}$, $I_B=-80\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-4.5	V	$I_C=-8\text{A}$, $I_B=-80\text{mA}$
Base-Emitter Voltage	V_{BE}			-2.8	V	$V_{CE}=-4\text{V}$, $I_C=-4\text{A}$
Output Capacitance	C_{ob}			300	pF	$V_{CB}=-10\text{V}$, $I_E=0$, $f=0.1\text{MHz}$

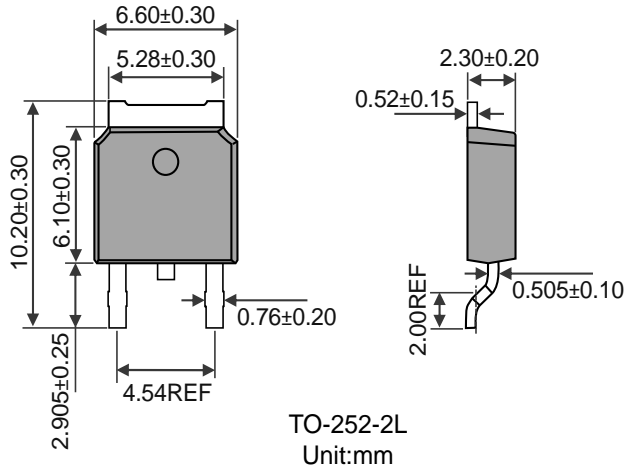


Typical Characteristics

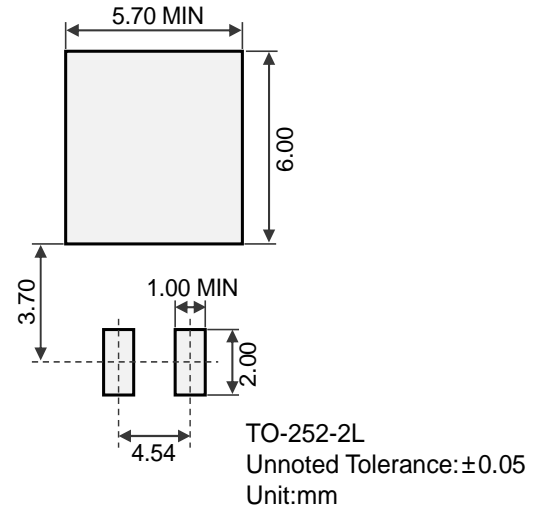


Package Outline Dimensions & Suggested Solder Pad Layout

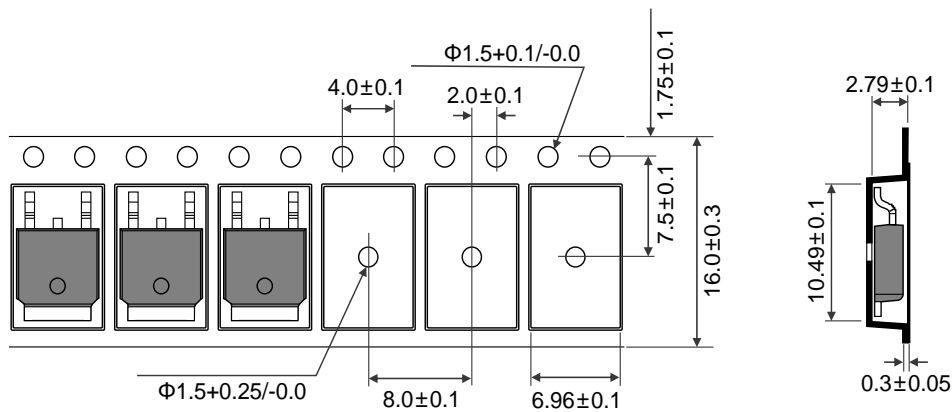
Package Outline Dimensions



Suggested Solder Pad Layout



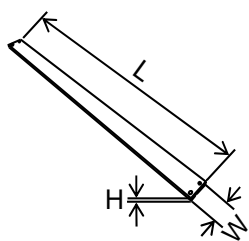
Reel Tape Dimensions (Dimensions in mm)



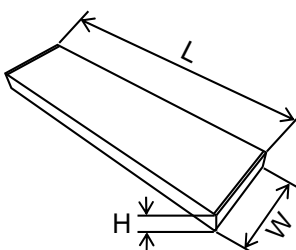
Packing Information

Packaging	Part Number	Quantity(pcs)	Size(mm)
Tube	Tube	80	L540×W20×H5
	Inner Box	4000	L570×W115×H55
	Outer Box	20000	L595×W320×H135
Reel	Reel	3000	Φ330×THK17
	Inner Box	3000	L350×W340×H25
	Outer Box	30000	L355×W300×H360

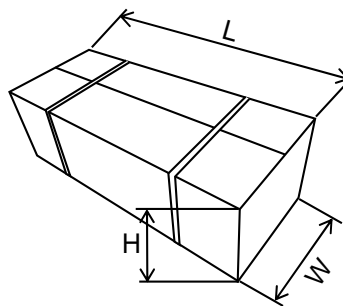
Packaging:Tube



Tube

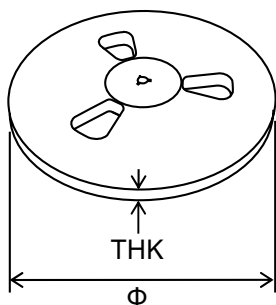


Tube Inner Box

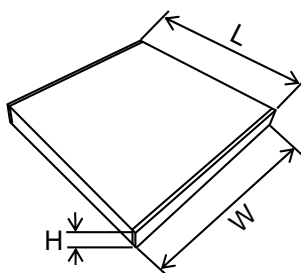


Tube Outer Box

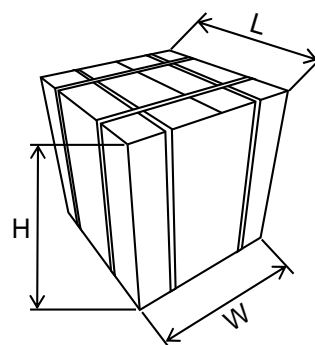
Packaging:Reel



Reel



Reel Inner Box



Reel Outer Box



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