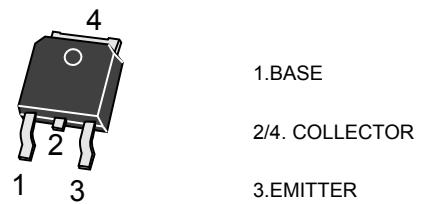


Features

- 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



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

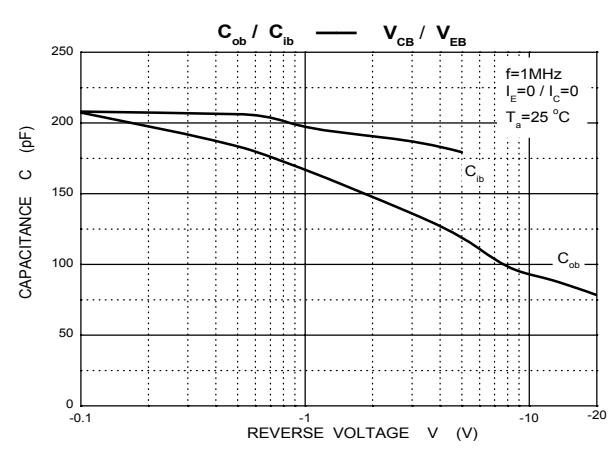
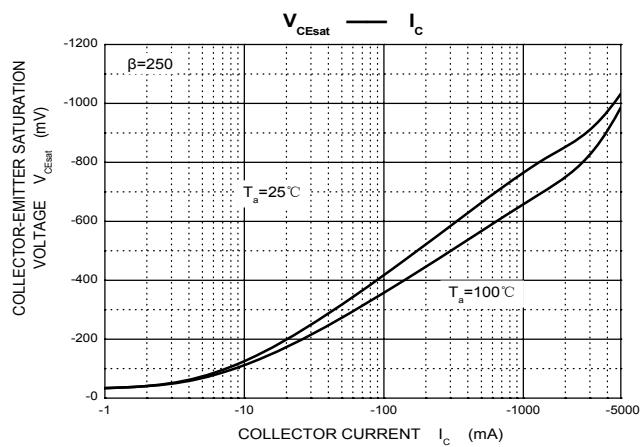
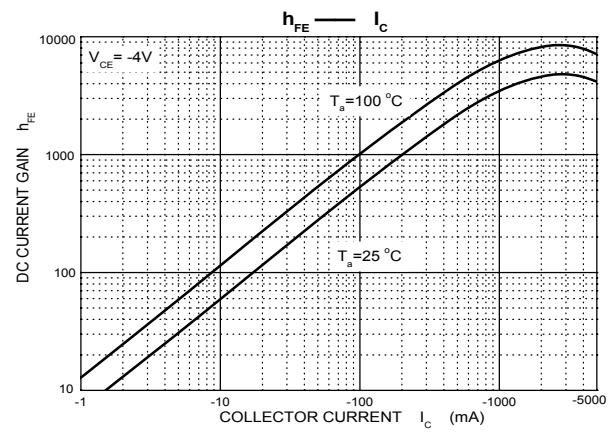
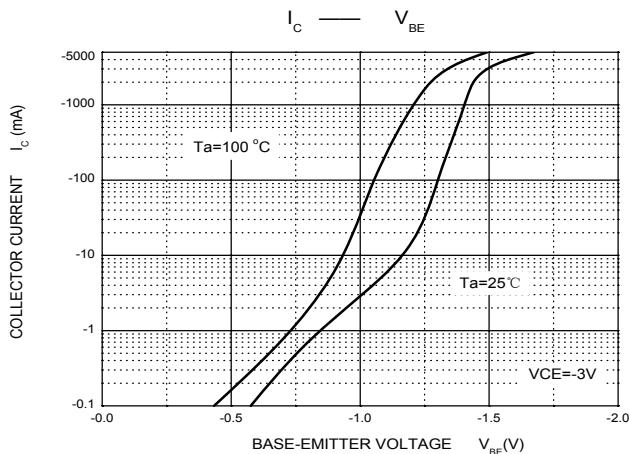
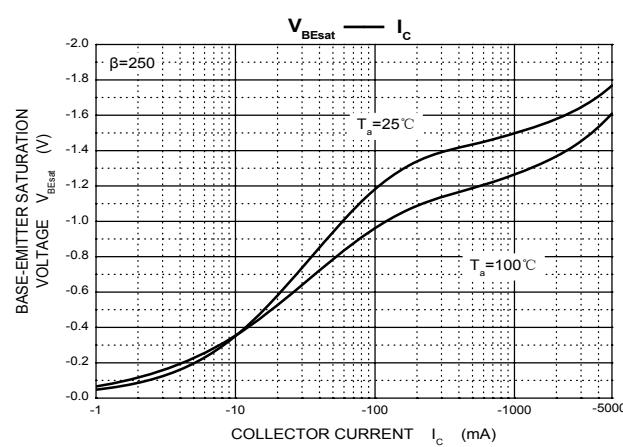
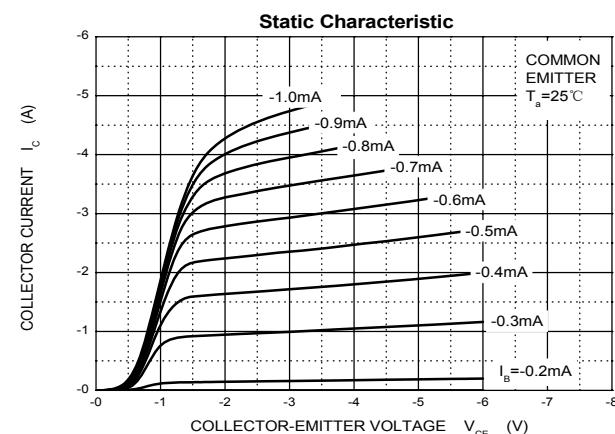
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I_C	-8	A
Power Dissipation	P_D	1.5	W

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	$V_{CE(\text{sat})}$			-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	$V_{BE(\text{sat})}$			-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	$V_{CB}=-10\text{V}$, $I_E=0$, $f=0.1\text{MHz}$

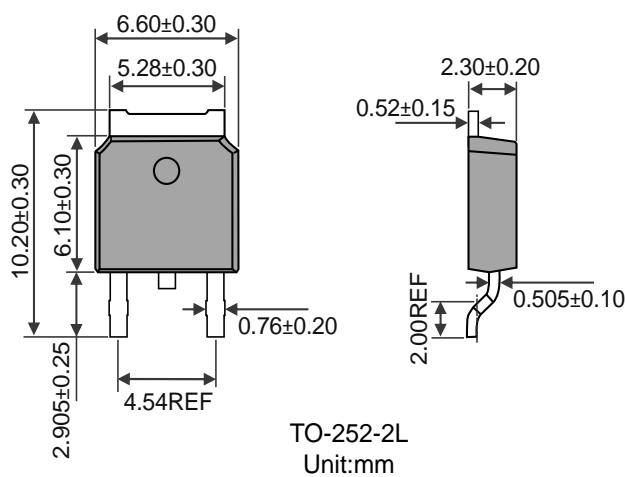


Typical Characteristics

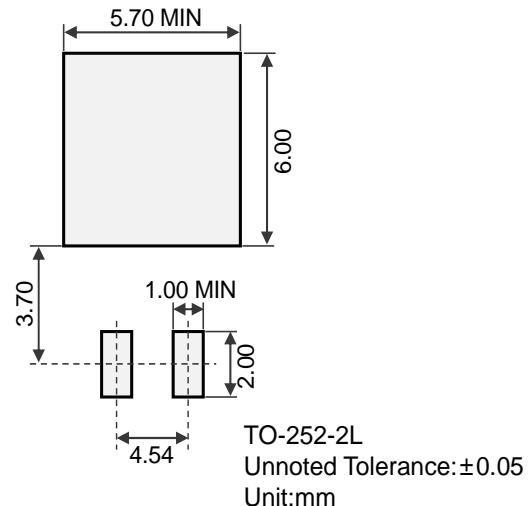


Package Outline Dimensions & Suggested Solder Pad Layout

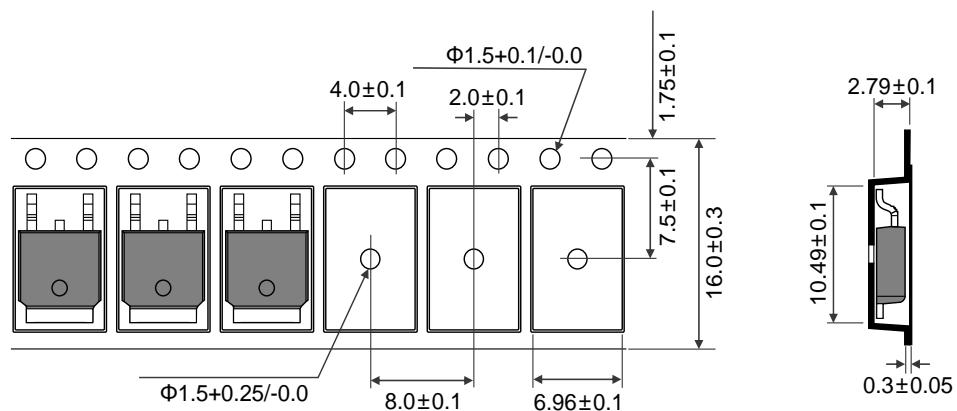
Package Outline Dimensions



Suggested Solder Pad Layout



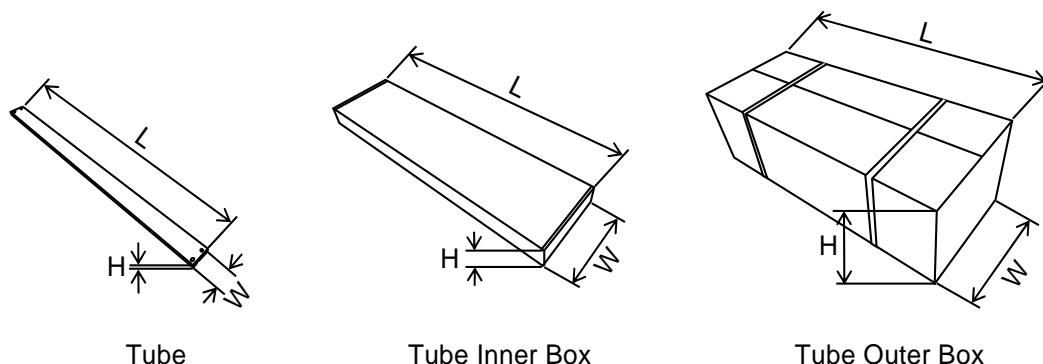
Reel Tape Dimensions (Dimensions in mm)



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

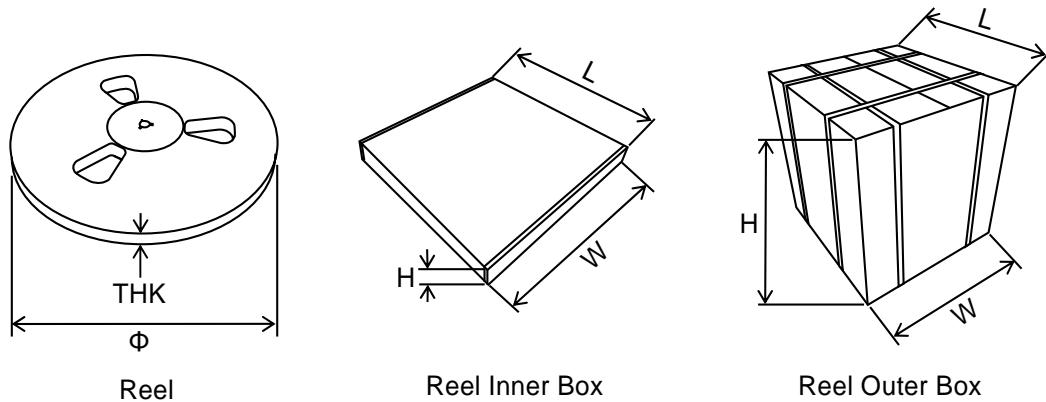


Tube

Tube Inner Box

Tube Outer Box

Packaging:Reel



Reel

Reel Inner Box

Reel Outer Box



DISCLAIMER

1. Above specification may be changed without notice. MHCHXM will reserve authority on material change for above specification.
2. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
3. When using this product, please observe the absolute maximum ratings and the instructions for use outlined in these specification sheets. MHCHXM assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
4. These specification sheets include materials protected under copyright of MHCHXM. Reproduction in any form is prohibited without the specific consent of MHCHXM.
5. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized MHCHXM sales agent for special application request.
6. Statements regarding the suitability of products for certain types of applications are based on MHCHXM's knowledge of typical requirements that are often placed on MHCHXM products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify MHCHXM's terms and conditions of purchase, including but not limited to the warranty expressed therein.
7. This publication supersedes & replaces all information previously supplied. For additional application information, please visit our website <http://www.jshxm.com> , or consult your nearest MHCHXM's sales office for further assistance.

