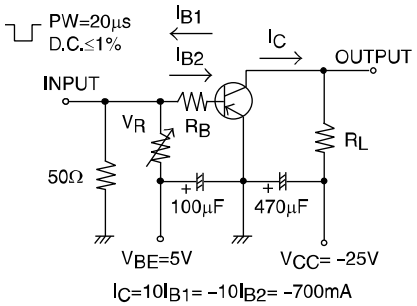
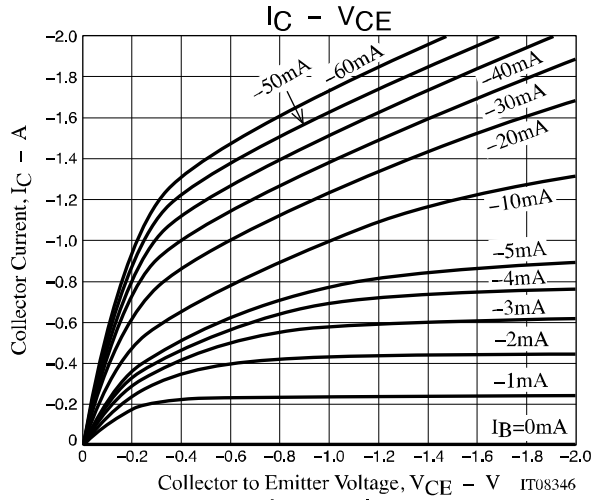
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 3)

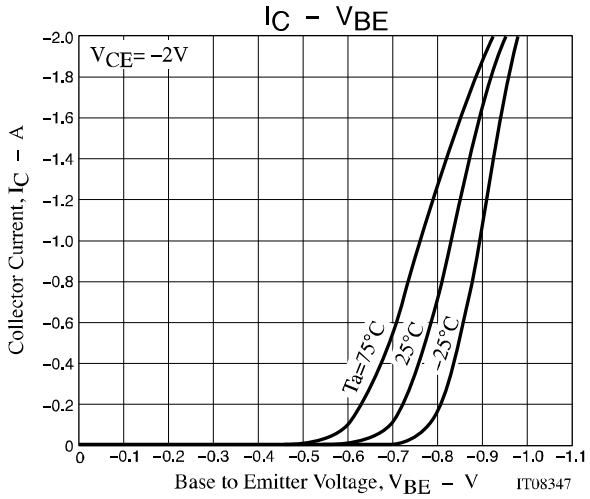
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	V_{CB}=–40V, I_E=0A			–1	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}=–4V, I_C=0A			–1	μA
DC Current Gain	$h_{FE}1$	V_{CE}=–2V, I_C=–100mA	200		560	
	$h_{FE}2$	V_{CE}=–2V,I_C=–1.5A	40			
Gain-Bandwidth Product	f_T	V_{CE}=–10V, I_C=–300mA		420		MHz
Output Capacitance	Cob	V_{CB}=–10V, f=1MHz		16		pF
Collector to Emitter Saturation Voltage	V_{CE}(sat)	I_C=–1A, I_B=–50mA		–0.2	–0.4	V
Base to Emitter Saturation Voltage	V_{BE}(sat)	I_C=–1A, I_B=–50mA		–0.9	–1.2	V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=–10μA, I_E=0A	–50			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=–1mA, R_{BE}=∞	–50			V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=–10μA, I_C=0A	–6			V
Turn-On Time	t_{on}	See specified Test Circuit		35		ns
Storage Time	t_{stg}			200		ns
Fall Time	t_f			24		ns

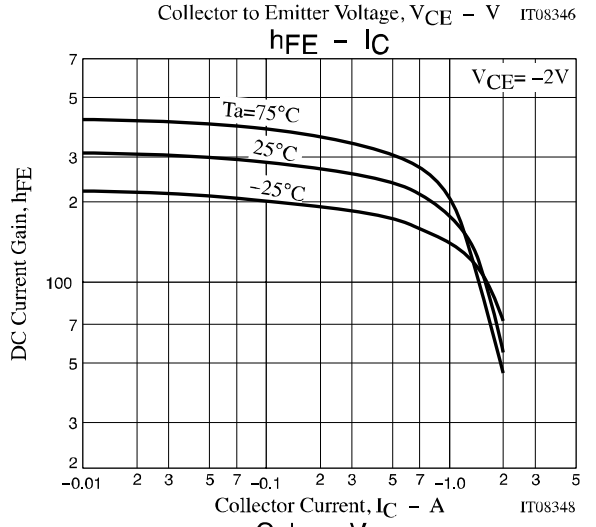
Note 3 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

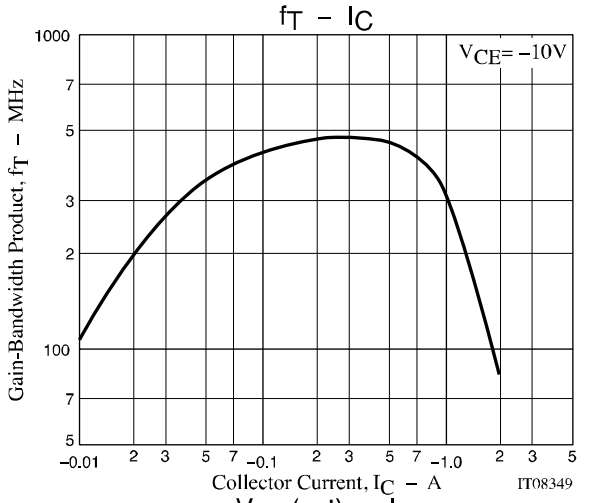
Switching Time Test Circuit

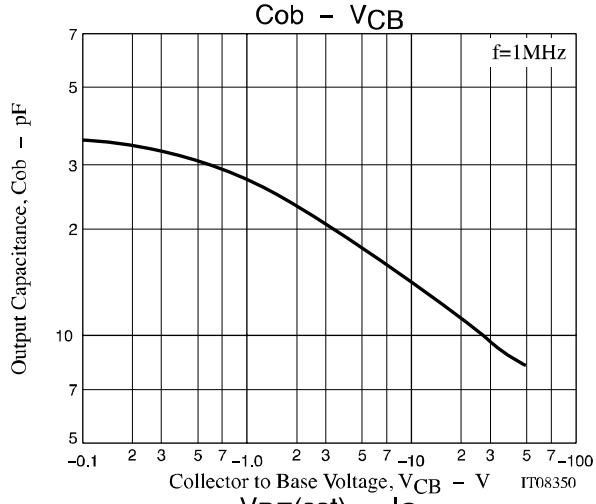


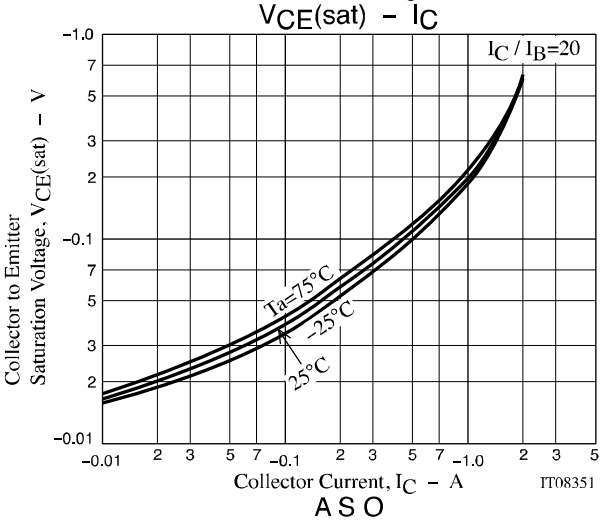


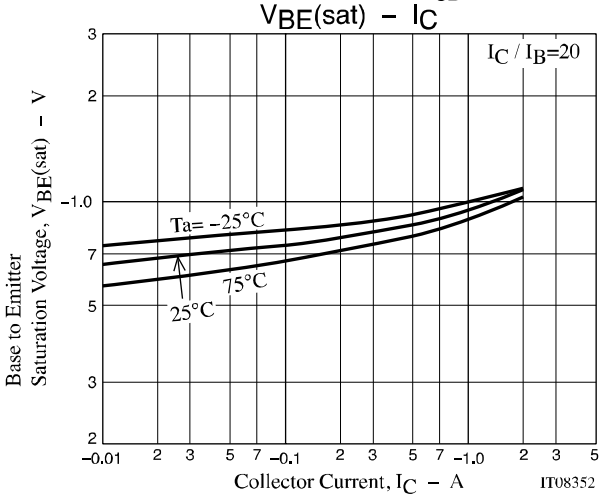


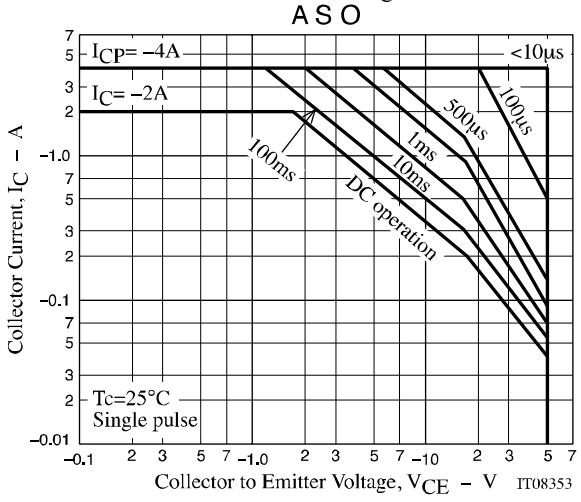


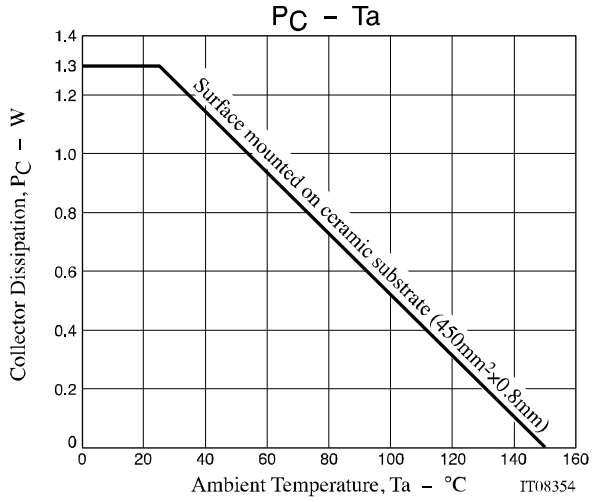


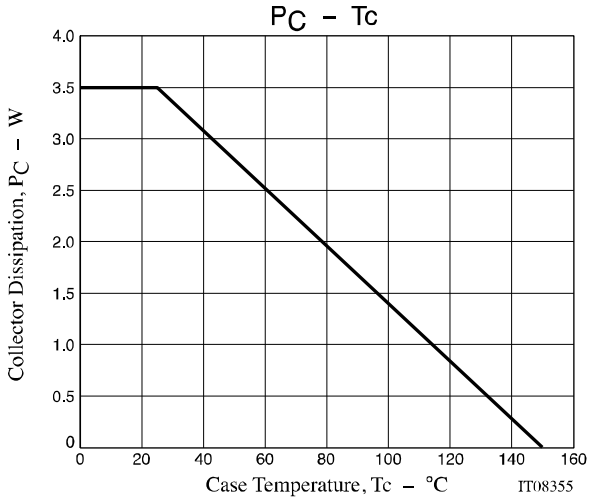








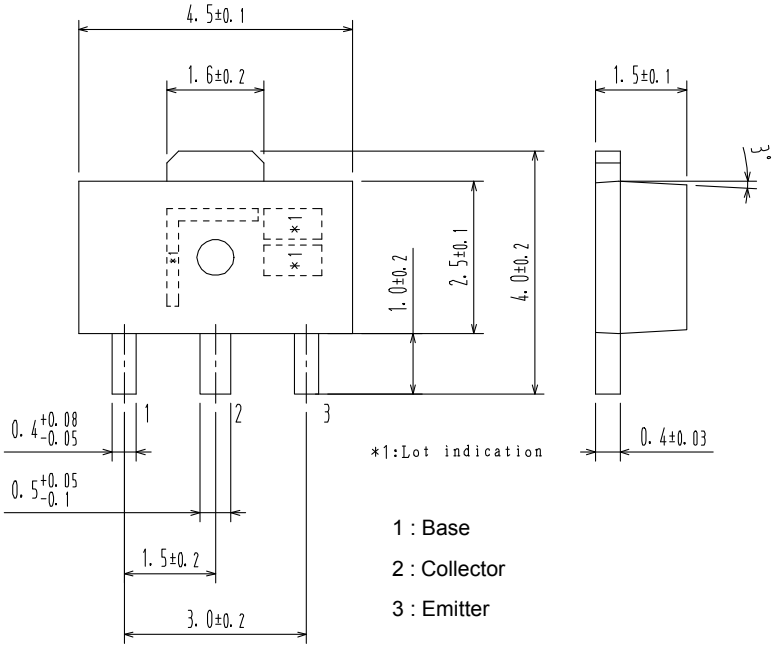


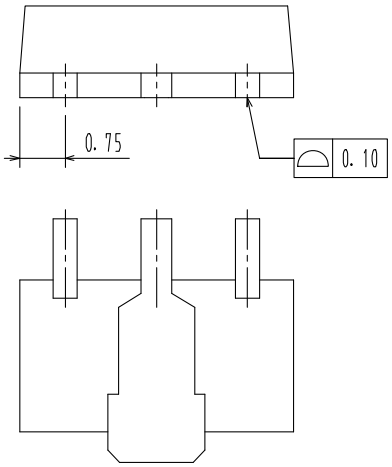


PACKAGE DIMENSIONS

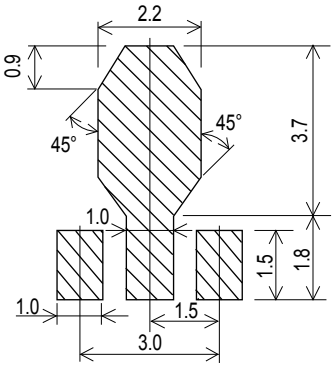
unit : mm

SOT-89 / PCP-1
CASE 419AU
ISSUE O





Recommended Soldering Footprint



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
2SA2153-TD-E	AZ	SOT-89 / PCP-1 (Pb-Free)	1,000 / Tape & Reel

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF