Onsemi

NPN Epitaxial Silicon Transistor

KSC2073

Features

- TV Vertical Deflection Output
- Complement to KSA940
- Collector-Base Voltage : V_{CBO} = 150 V
- These Devices are Pb–Free and Halide Free

ABSOLUTE MAXIMUM RATINGS

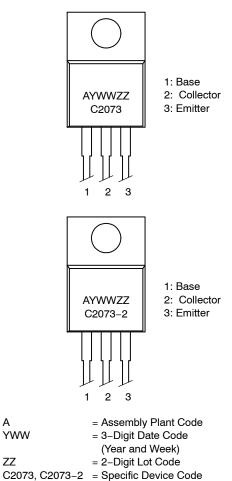
(T_A = 25°C unless otherwise noted.)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	150	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ι _C	Collector Current	1.5	А	
Pc	Collector Dissipation (T _C =25°C)	25	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55~150	°C	

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

TO-220-3LD CASE 340AT

MARKING DIAGRAMS



ORDERING INFORMATION

A

See detailed ordering, marking and shipping information on page 2 of this data sheet.

NOTE: Some of the devices on this data sheet have been DISCONTINUED. Please refer to the table on page 2.

ELECTRICAL CHARACTERISTICS

 $(T_A = 25^{\circ}C \text{ unless otherwise noted.})$

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 500 μA, I _E = 0	150	-	-	V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 10 mA, I _B = 0	150	-	-	V
BV_{EBO}	Emitter-Base Breakdown Voltage	I _E = 500 μA, I _C = 0	5	-	-	V
I _{CBO}	Collector Cut-Off Current	V _{CB} = 120 V, I _E = 0	-	-	10	μΑ
h _{FE}	DC Current Gain	V_{CE} = 10 V, I _C = 0.5 A	40	75	140	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 500 mA, I _B = 50 mA	-	-	1	V
f _T	Current Gain Bandwidth Product	V_{CE} = 10 V, I _C = 0.5 A	-	4	-	MHz
C _{ob}	Output Capacitance	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$	-	50	-	pF

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.

h_{FE} CLASSIFICATION

Classification	H1	H2
h _{FE}	40 ~ 80	60 ~ 125

ORDERING INFORMATION

Device	Package	Marking	Shipping
KSC2073TU	TO-220-3LD (Pb-Free)	C2073	1000 Units / Tube

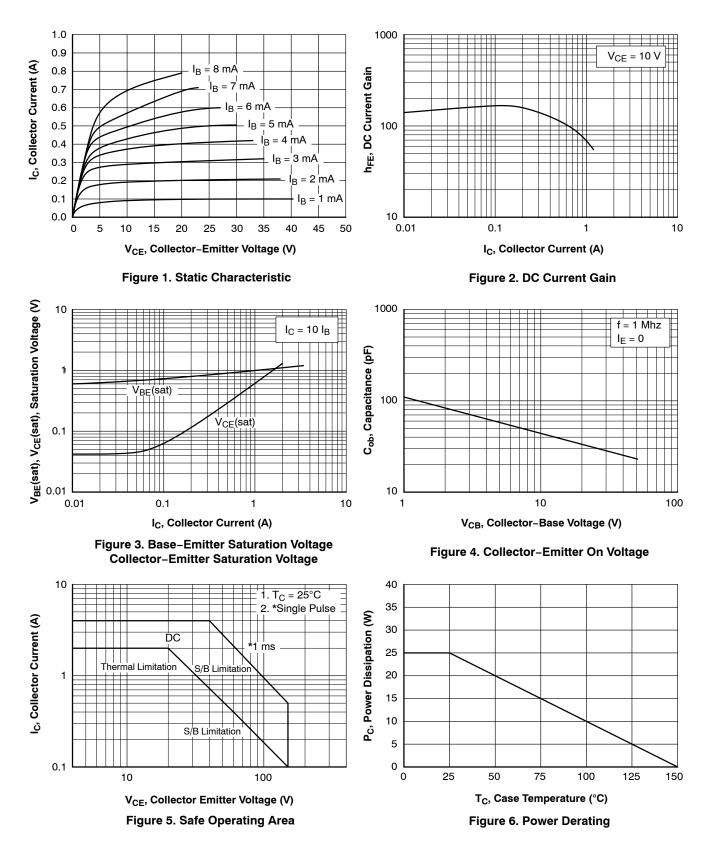
DISCONTINUED (Note 1)

KSC2073H2TU TO-220-3LD (Pb-Free)	C2073-2	1000 Units / Tube
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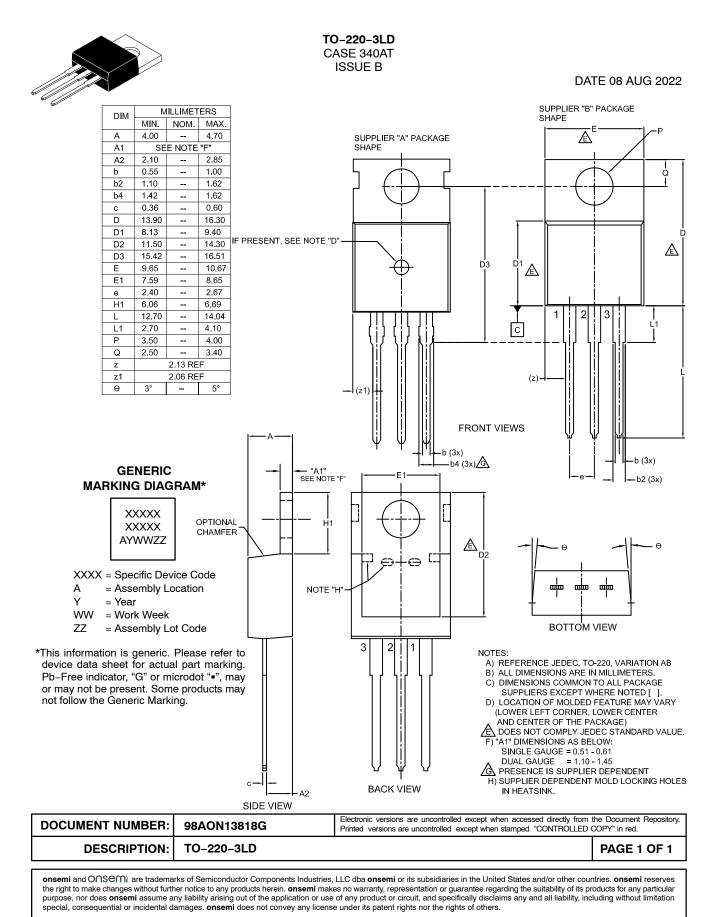
1. **DISCONTINUED:** This device is not recommended for new design. Please contact your **onsemi** representative for information. The most current information on this device may be available on <u>www.onsemi.com</u>.

KSC2073

TYPICAL PERFORMANCE CHARACTERISTICS







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