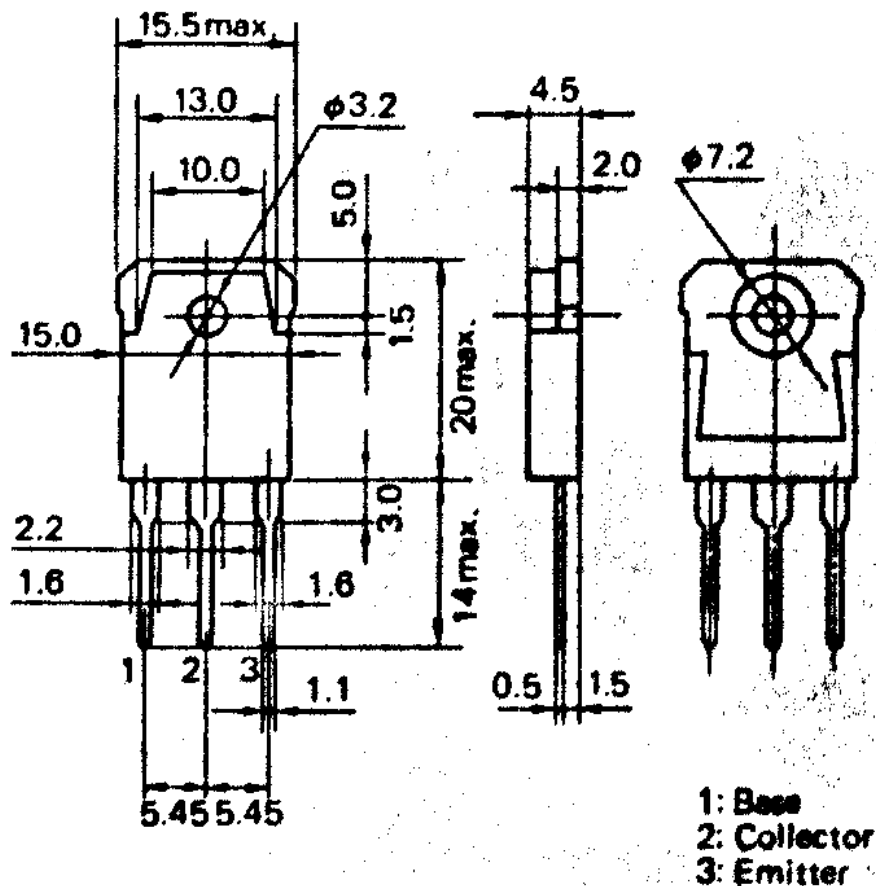


**Low voltage high current switching transistors**

- High speed switching performance
- V<sub>CEO</sub> (sus): 80 – 120 volts
- I<sub>c</sub> cont : Up to 10 – 25 Amps
- Suitable for motor control applications such as DC-DC converters, golf carts, fork-lifts and industrial sewing machines using battery power supply.

Device type	V <sub>CB0</sub> volts	V <sub>CEO</sub> volts	V <sub>CEO</sub> (sus) volts	I <sub>c</sub> cont. amps.	P <sub>c</sub> watts	h <sub>FE</sub> min.	I <sub>c</sub> amps.	V <sub>CE</sub> volts	Switching time			Package	Net weight grams
									t <sub>on</sub> μsec.	t <sub>s</sub> μsec.	t <sub>f</sub> μsec.		
2SD907	80	80	80	10	100	40	2	5	0.5	2.0	0.3	TO-3P	6
2SC2438	150	100	100	10	60	40	1	1	0.5	2.0	0.3	TO-220AB	2
2SD908	150	120	120	10	100	40	2	5	0.5	2.0	0.3	TO-3P	6
2SD847	40	40	40	15	100	40	5	5	0.5	2.0	0.3	TO-3P	6
2SD909	150	80	80	15	100	40	5	5	0.5	2.0	0.3	TO-3P	6
2SD911	150	80	80	15	100	40	5	5	0.5	2.0	0.3	TO-3	17
2SD913	200	80	80	25	150	20	25	5	0.5	2.0	0.3	TO-3	19
2SD1049	120	80	80	25	100	25	25	5	0.5	2.0	0.3	TO-3P	6
2SD914	200	120	120	25	150	20	25	5	0.5	2.0	0.3	TO-3	19

# TO-3P



## ■ Letter symbols

$V_{CB0}$  : Collector-to-base voltage  
(Emitter open)

$V_{CE0}$  : Collector-to-emitter voltage  
(Base open)

$V_{CER}$  : Collector-to-emitter voltage  
(Resistance between base and emitter)

$V_{CE0}(sus)$  : Collector-to-emitter sustaining  
voltage (Base open)

$I_C(Cont)$  : Collector-current (Continuous)

$P_C$  : Collector power dissipation

$h_{FE}$  : DC current gain

$t_{on}$  : Turn-on time

$t_s$  : Storage time

$t_f$  : Fall time

SOA: Safe operating area

## ■ Series Regulator use

Description	Recommended transistors	Circuit diagrams
Color TV power supply	Over 20" 2SD920, 2SD981 ET075A 19" - 16" 2SD929, 2SD921, ET075B Under 16" 2SD931, 2SD982, ET075C, ET099A	
B/W TV power supply	Over 20" 2SD920, 2SD922 19" - 16" 2SD923, 2SD921, 2SD929 Under 16" 2SD983, 2SD982 ET099B, ET099A	
General purpose series regulator or active power filter	All UBTs 2SD847, 2SD907 2SD908, 2SD909 2SD911, 2SD913 2SD914, 2SD1049 2SD677, 2SC2437 2SC2656	