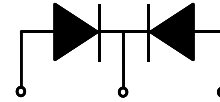
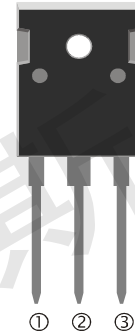


TO-3P(TO-247AD)

Features

- High Surge Capability
- Low Forward Voltage Drop
- High Current Capability
- Super Fast Switching Speed For High Efficiency



1. Anode 2. Cathode 3. Anode

Absolute Maximum Ratings $T_C=25^{\circ}\text{C}$ unless otherwise noted

PARAMETER	SYMBOL	3040	3045	3050	3060	3080	3090	30100	30150	30200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current	I _{F(AV)}	30									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	275									A
Maximum Forward Voltage at 15A per leg	V _F	0.7		0.75		0.82			0.92		V
Maximum DC Reverse Current at T _J =25 °C Rated DC Blocking Voltage T _J =125°C	I _R	0.1 20						0.05 20			mA
Typical Thermal Resistance	R _{θJC}	1.4									°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 to + 150	-65 to +175								°C

RATING AND CHARACTERISTIC CURVES

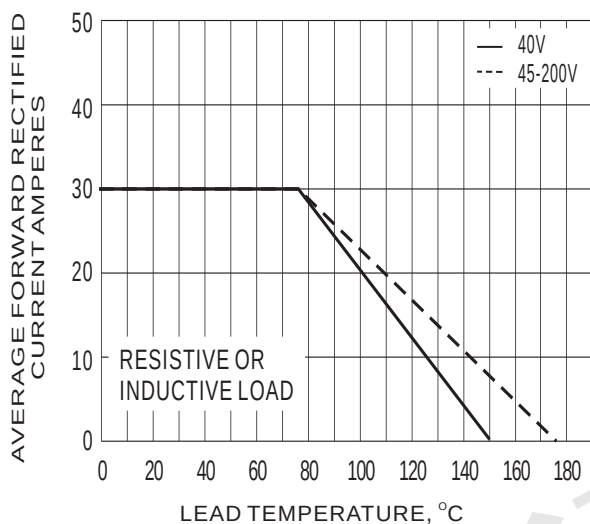


Fig.1- FORWARD CURRENT DERATING CURVE

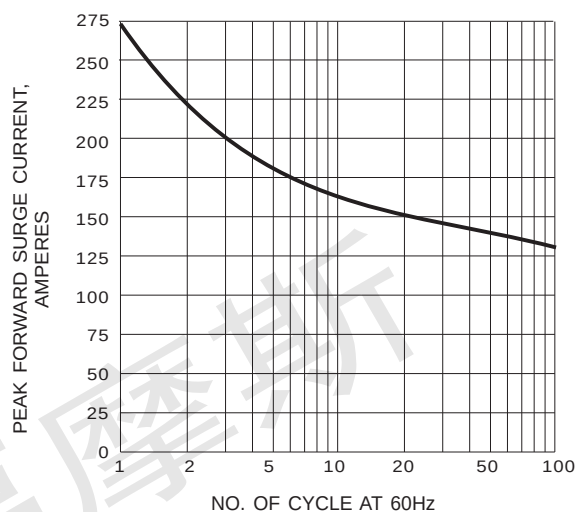


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

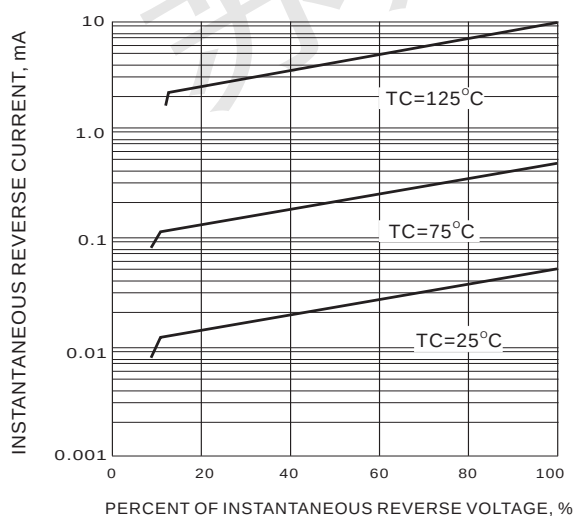


Fig.3- TYPICAL REVERSE CHARACTERISTIC

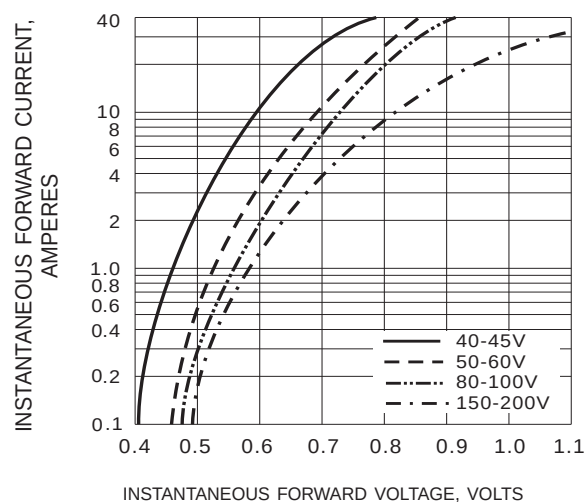


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC