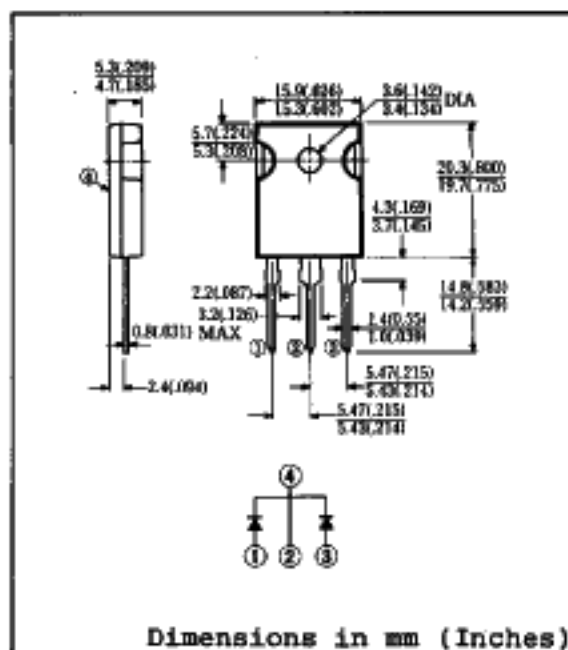


FEATURES

- Similar to TO-247AC (TO-3P) Case
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available



Dimensions in mm (Inches)

Approx. Net Weight: 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	◆ C25P05Q	C25P06Q	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	60	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	55	65	V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I_O	Full rectangular wave conduction $T_C = 81^\circ\text{C}$	27.7	A
		Full sinusoidal wave conduction $T_C = 91^\circ\text{C}$	25	
RMS Forward Current	$I_{F(RMS)}$		28	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive	200	A
Operating Junction Temperature Range	T_{jw}		-40 to 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}		-40 to 125	$^\circ\text{C}$
Mounting Torque	F_{tor}	Recommended torque	0.5 (5.1)	N·m (kgf·cm)

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 12.5\text{A}$ $T_j = 25^\circ\text{C}$ per diode leg	0.62	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg	15	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.5	$^\circ\text{C/W}$

◆ For spare parts only

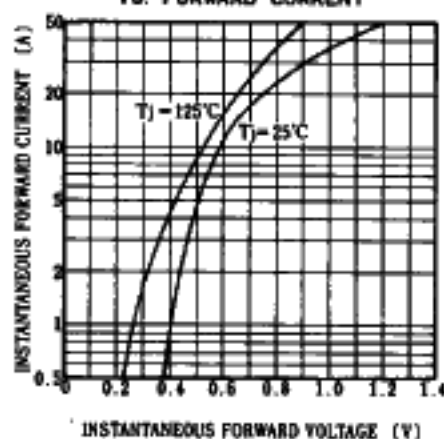
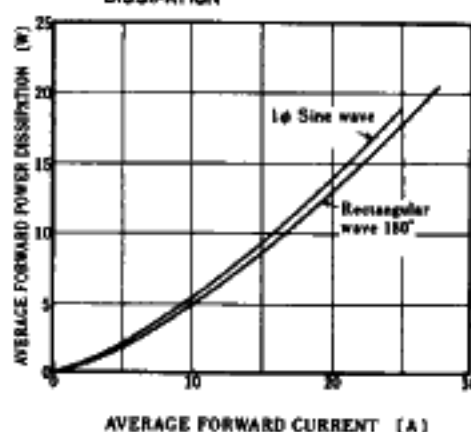
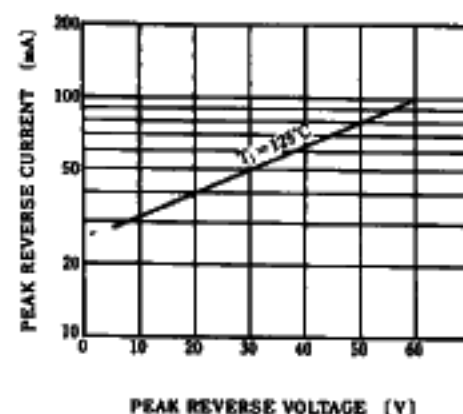
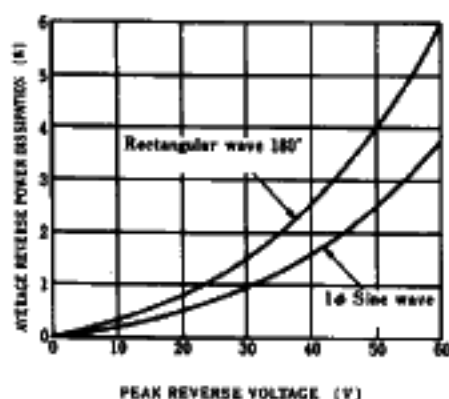
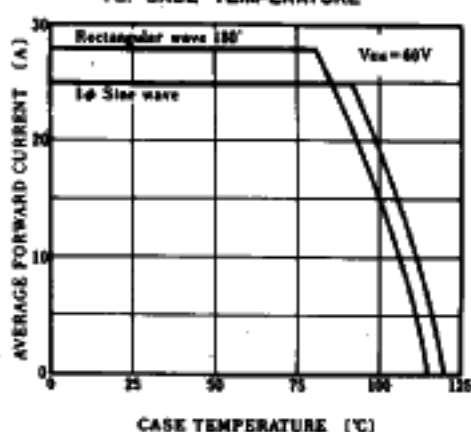
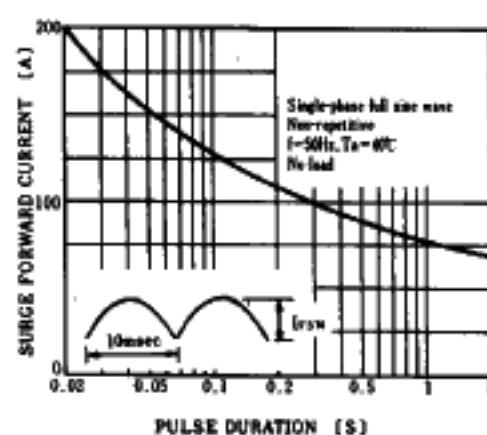
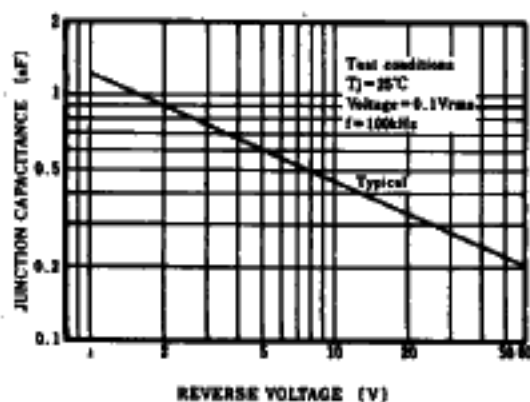
FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENTFIG.2-AVERAGE FORWARD POWER
DISSIPATIONFIG.3-PEAK REVERSE CURRENT
VS. PEAK REVERSE VOLTAGEFIG.4-AVERAGE REVERSE POWER
DISSIPATIONFIG.5-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

FIG.6-SURGE CURRENT RATINGS

FIG.7-JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE

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