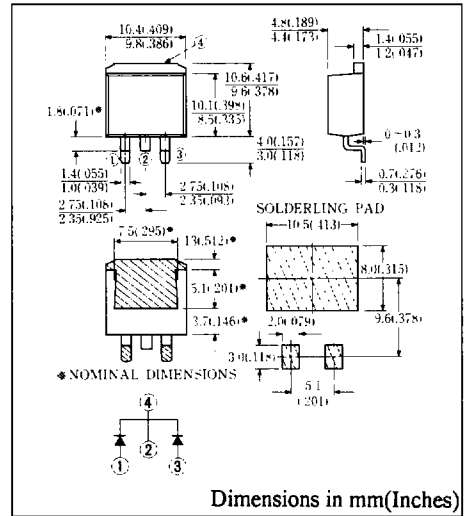


SQUARE – PAK

FEATURES

- Similar to TO-263AB Case, Surface Mounting Device
- Dual Diodes – Cathode Common
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available
- Packaged in 24mm Tape and Reel



Dimensions in mm(Inches)

Approx. Net Weight : 1.4 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	◆ C25 T02QL	C25 T03QL	Unit	
	Symbol				
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	V	
Repetitive Peak Surge Reverse Voltage (Pulse width $\leq 1 \mu$ sec) (Duty $\leq 1/50$)	V_{RSM}	25	35	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current (resistive load)	I_o	Full rectangular wave conduction $V_R=30V$ $T_C = 92^\circ C$		27.7	A
		Full sinusoidal wave conduction $V_R=30V$ $T_C = 100^\circ C$		25	
RMS Forward Current	I_F (RMS)			28	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive		180	A
Operating Junction Temperature Range	T_{jw}			- 40 to 125	$^\circ C$
Storage Temperature Range	T_{stg}			- 40 to 125	$^\circ C$

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM}=12.5$, $T_j=25^\circ C$ per diode leg	0.47	V
Peak Reverse Current	I_{RM}	$V_{RM}=V_{RRM}$, $T_j=25^\circ C$ per diode leg	15	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.5	$^\circ C/W$

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS FORWARD CURRENT

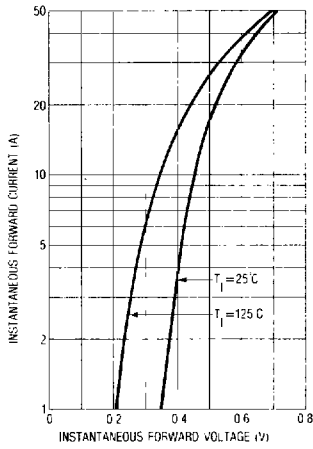


FIG.2-AVERAGE FORWARD POWER DISSIPATION

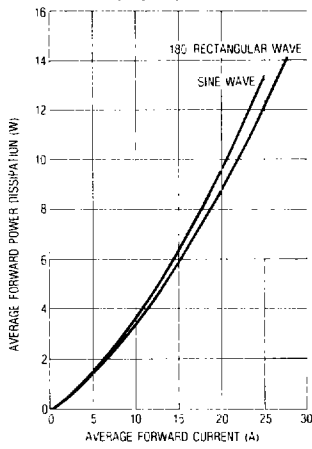


FIG.3-PEAK REVERSE CURRENT VS PEAK REVERSE VOLTAGE

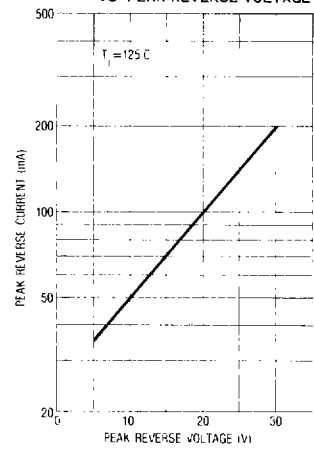


FIG.4-AVERAGE REVERSE POWER DISSIPATION

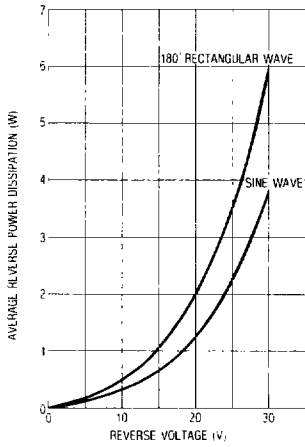


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

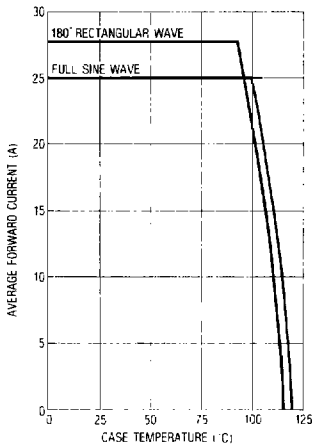


FIG.6-SURGE CURRENT RATINGS

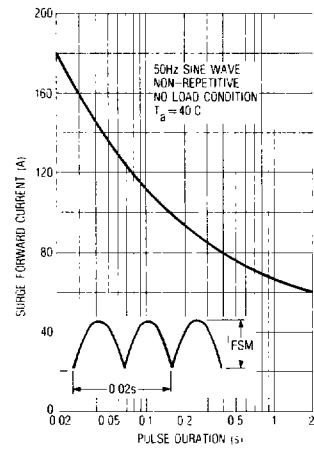


FIG.7-JUNCTION CAPACITANCE VS REVERSE VOLTAGE

