

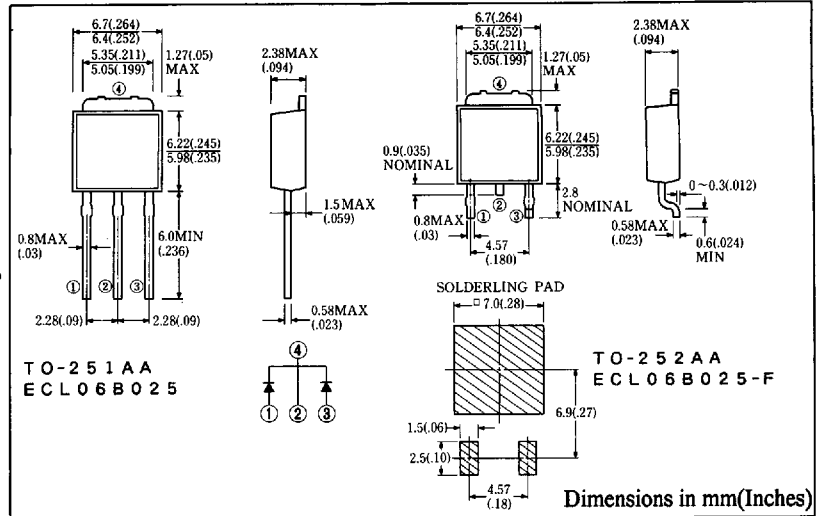
# SCHOTTKY BARRIER DIODE

6.6A/25V

ECL06B025  
ECL06B025-F

## FEATURES

- TO-251AA Case : ECL06B025
- TO-252AA Case : ECL06B025 - F  
Surface Mounting Device  
Packaged in 16mm Tape and Reel
- Dual Diodes - Cathode Common
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability



Approx. Net Weight : 0.35 Grams

0.3Grams

## MAXIMUM RATINGS

Voltage Rating	TYPE	◆ ECL06B025		Unit
	Symbol	◆ ECL06B025 - F		
Repetitive Peak Reverse Voltage	$V_{RRM}$	25		V
Repetitive Peak Surge Reverse Voltage (Pulse width $\leq 1 \mu\text{sec}$ Duty $\leq 1/50$ )	$V_{RSM}$	30		V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current (resistive load)	$I_o$	Full rectangular wave conduction $T_c = 67^\circ\text{C}$	6.6	A
		Full sinusoidal wave conduction $T_c = 72^\circ\text{C}$	6.0	
RMS Forward Current	$I_F$ (RMS)		6.66	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz full sine wave, non - repetitive	45	A
Operating Junction Temperature Range	$T_{jw}$		- 40 to 100	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$		- 40 to 125	$^\circ\text{C}$

## ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Typ.	Max.	Unit
Peak Forward Voltage	$V_{FM}$	$I_{FM}=3A, T_j=25^\circ\text{C}$ per diode leg	-	0.47	V
		$I_{FM}=1A, T_j=25^\circ\text{C}$ per diode leg	0.29	-	
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}, T_j=25^\circ\text{C}$ per diode leg	-	3	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	5	$^\circ\text{C/W}$

◆ For spare parts only

6615123 0001947 T80

FIG. 1-FORWARD VOLTAGE  
VS. FORWARD CURRENT

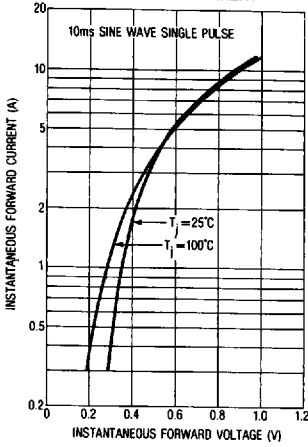


FIG. 2-AVERAGE FORWARD POWER  
DISSIPATION

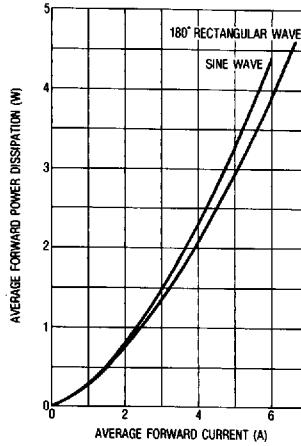


FIG. 3-PEAK REVERSE CURRENT  
VS. PEAK REVERSE VOLTAGE

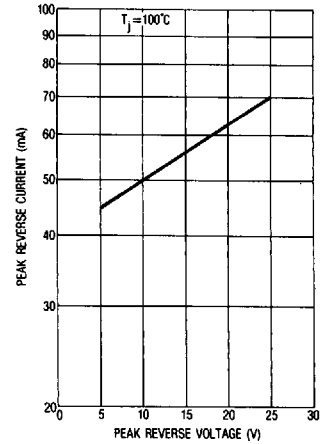


FIG. 4-AVERAGE REVERSE POWER  
DISSIPATION

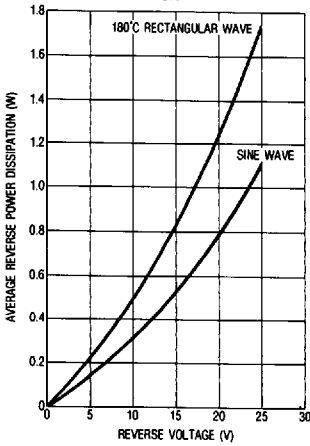


FIG. 5-AVERAGE FORWARD CURRENT  
VS. CASE TEMPERATURE

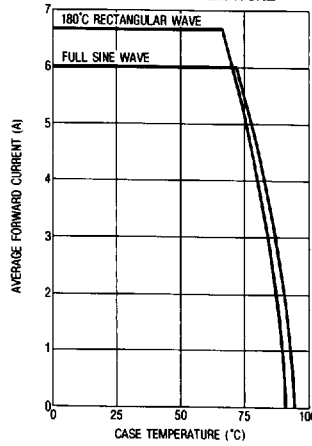


FIG. 6-SURGE CURRENT RATINGS

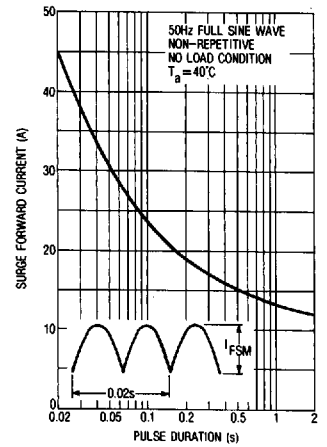


FIG. 7-JUNCTION CAPACITANCE  
VS. REVERSE VOLTAGE

