

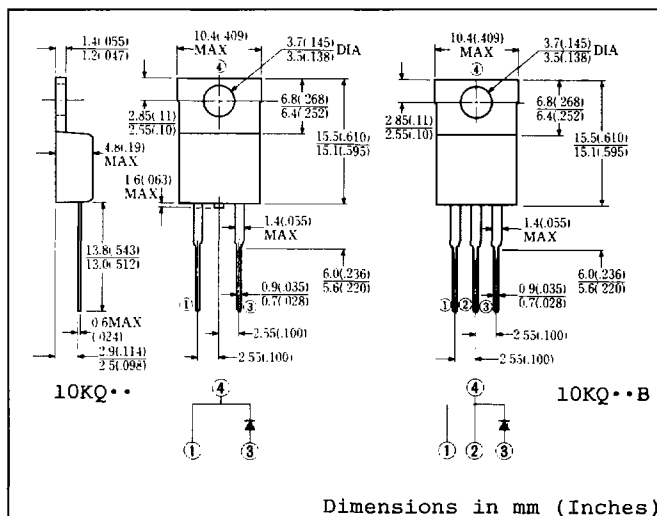
SCHOTTKY BARRIER DIODE

11A/30~40V

10KQ30 F10KQ30 10KQ40 F10KQ40
10KQ30B F10KQ30B 10KQ40B F10KQ40B

FEATURES

- Similar to TO-220AC and TO-220AB Case
- Fully Molded Isolation Case (F-Type)
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 100 Volts Types Available



Approx. Net Weight: 1.85 Grams 1.9 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	◆10KQ30 ◆F10KQ30 ◆10KQ30B ◆F10KQ30B	10KQ40 10KQ40B	F10KQ40 F10KQ40B	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	30	40		V
Non-Repetitive Peak Reverse Voltage	V _{RSM}	35	45		V
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	I _O	180° rectangular wave conduction T _C = 92°C		11	A
		180° sinusoidal wave conduction T _C = 99°C		10	
RMS Forward Current	I _{F(RMS)}			15.7	A
Peak One-cycle Forward Surge Current	I _{FSM}	50Hz half sine wave, non-repetitive		180	A
Operating Junction Temperature Range	T _{jw}			-40 to 125	°C
Storage Temperature Range	T _{stg}			-40 to 125	°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}	$I_{FM} = 10\text{A}$ $T_j = 25^\circ\text{C}$	0.59	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$	10	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	3.0	°C/W
	$R_{th(c-f)}$	Case to Fin for F10KQ Type	1.5	

◆ For spare parts only

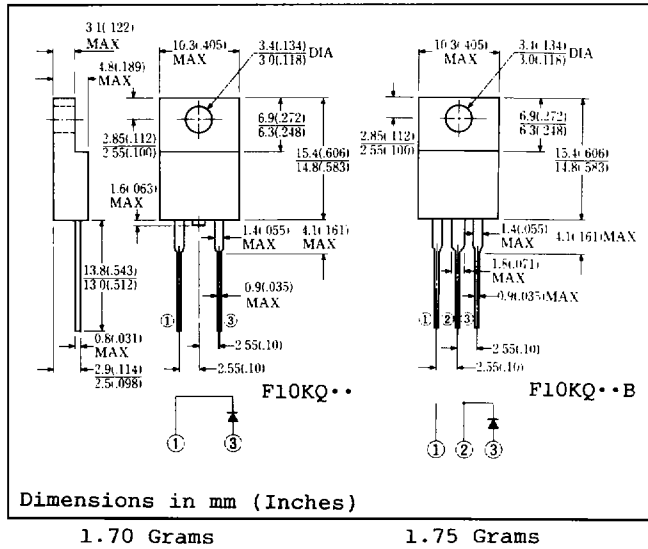


FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

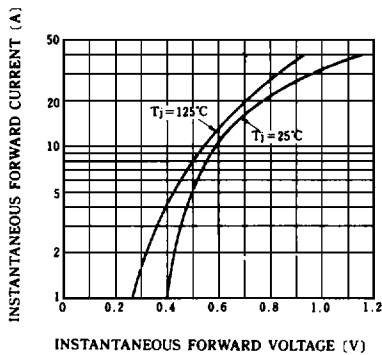


FIG.2-PEAK REVERSE CURRENT
VS. PEAK REVERSE VOLTAGE

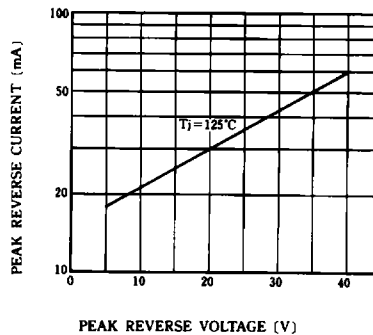


FIG.3-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

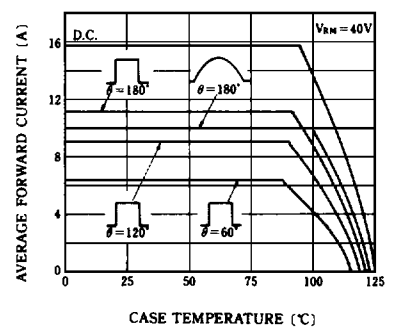


FIG.4-SURGE CURRENT RATINGS

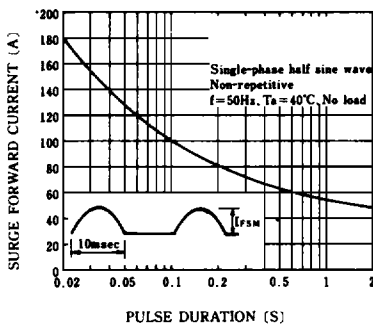


FIG.5-JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE

