

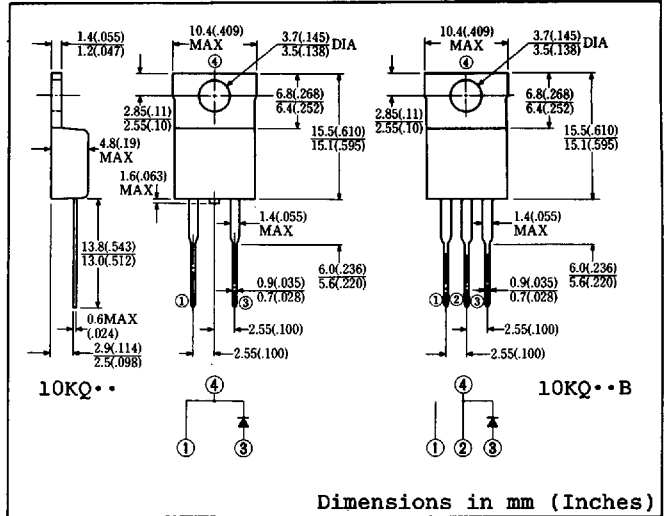
SCHOTTKY BARRIER DIODE

11A/50~60V

10KQ50 F10KQ50 10KQ60 F10KQ60
10KQ50B F10KQ50B 10KQ60B F10KQ60B

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	◆10KQ50	◆F10KQ50	10KQ60	F10KQ60	Unit
		◆10KQ50B	◆F10KQ50B	10KQ60B	F10KQ60B	
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	180° rectangular wave conduction $T_c = 87^\circ C$			11	A
		180° sinusoidal wave conduction $T_c = 96^\circ C$			10	
RMS Forward Current	$I_{F(RMS)}$				15.7	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive			150	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}	$I_{FM} = 10A$	$T_j = 25^\circ C$	0.67	v
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$	$T_j = 25^\circ C$	10	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case		3.0	—
	$R_{th(c-f)}$	Case to Fin for F10KQ Type		1.5	

◆ For spare parts only

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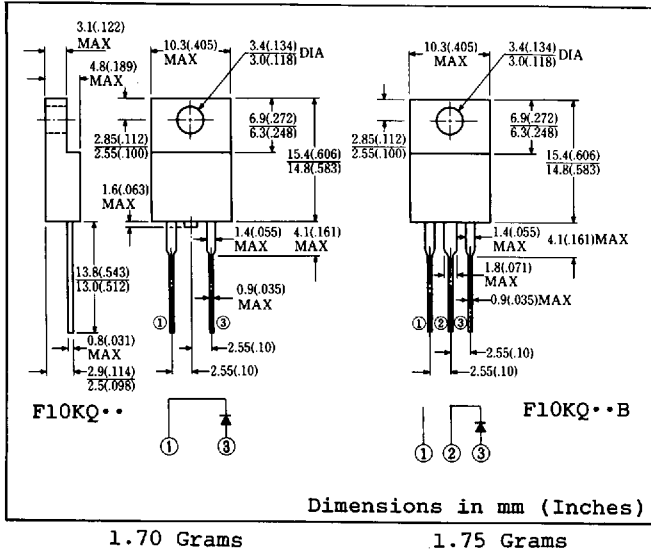


FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

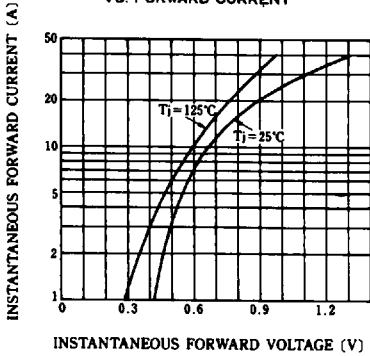


FIG.2-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

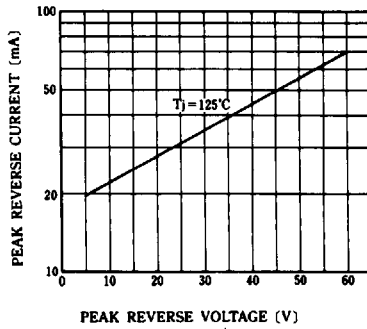


FIG.3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

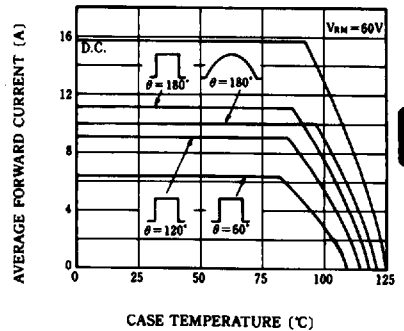


FIG.4-SURGE CURRENT RATINGS

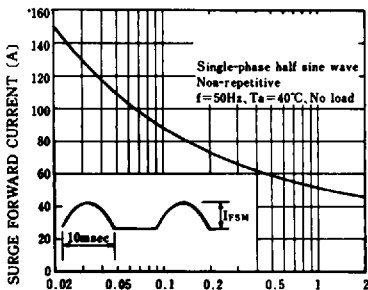


FIG.5-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

