

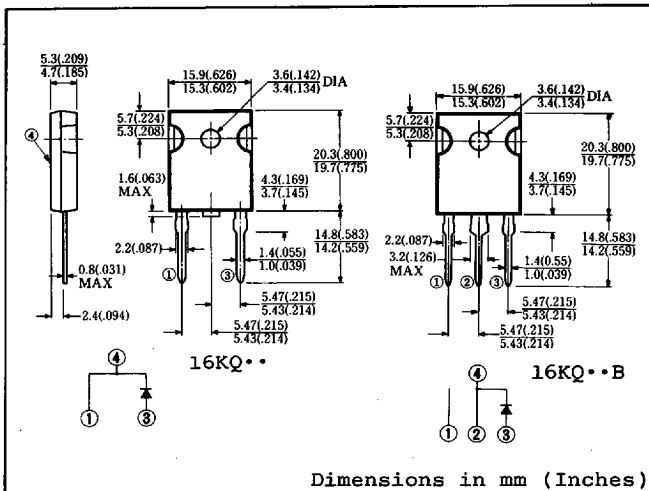
SCHOTTKY BARRIER DIODE

16.6A/30~40V

16KQ30 16KQ40
16KQ30B 16KQ40B

FEATURES

- Similar to TO-247AC (TO-3P) Case
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- 30 Volts and 100 Volts Types Available



Approx. Net Weight: 5.5 Grams 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	◆16KQ30	16KQ40	Unit	
	Symbol	◆16KQ30B	16KQ40B		
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 $T_C = 92^{\circ}\text{C}$		16.6	A
		180° sinusoidal wave conduction $T_C = 100^{\circ}\text{C}$		15.0	
RMS Forward Current	$I_{F(RMS)}$			24	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave non-repetitive		250	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}	$I_{FM} = 15A$ $T_j = 25^{\circ}C$	0.56	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^{\circ}C$	15	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to case	2	$^{\circ}C/W$

◆ For spare parts only

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(NI) Nihon Inter Electronics Corporation

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FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

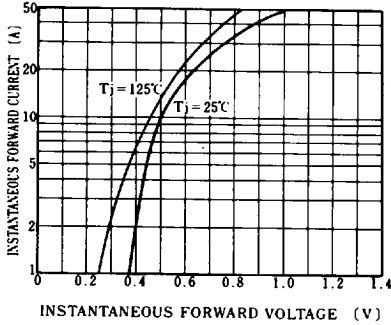


FIG.2-PEAK REVERSE CURRENT
VS. PEAK REVERSE VOLTAGE

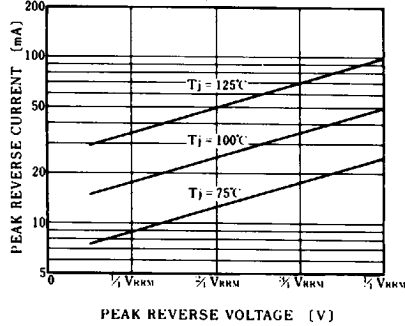


FIG.3-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

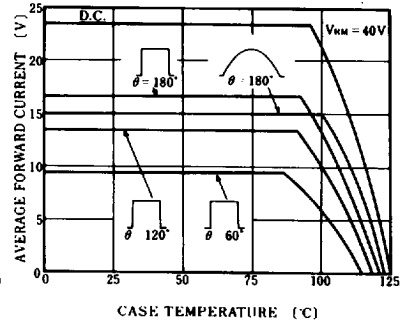
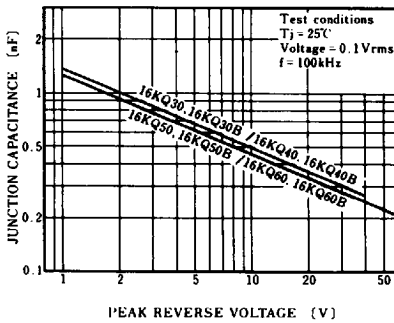


FIG.1-JUNCTION CAPACITANCE (TYPICAL)
VS. REVERSE VOLTAGE



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