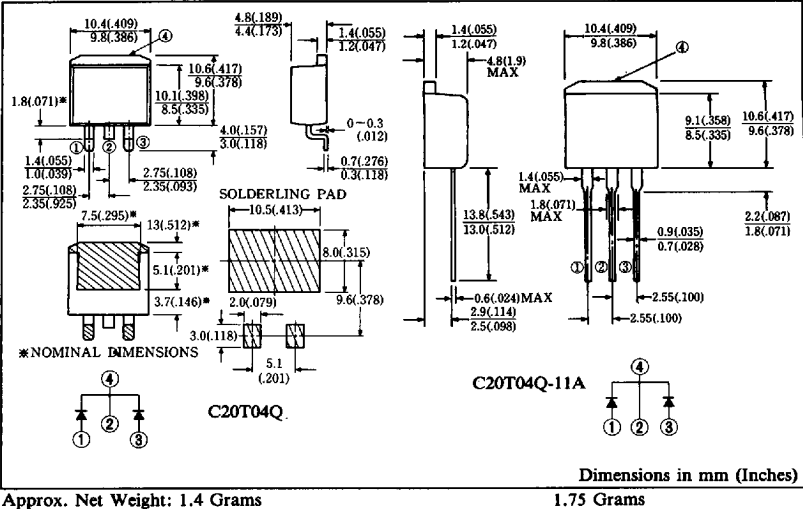


FEATURES

- **SQUARE-PAK** TO-263AB (SMD) Packaged in 24mm Tape and Reel : C20T04Q
- Tabless TO-220: C20T04Q-11A
- TO-220AB : GCQ20A04
- TO-220AB Fully Molded Isolation : FCQ20A04
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- High Surge Capability
- 40 Volts through 100 Volts Types Available



MAXIMUM RATINGS

Voltage Rating	Type Symbol	C20T04Q C20T04Q-11A	GCQ20A04 FCQ20A04	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40		V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I_O	Full rectangular wave conduction $T_C = 93^{\circ}C$	22	A
		Full sinusoidal wave conduction $T_C = 100^{\circ}C$	20	
RMS Forward Current	$I_{F(RMS)}$		22.2	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave 1 cycle, non-repetitive	180	A
Operating Junction Temperature Range	T_{jw}		-40 to 125	$^{\circ}C$
Storage Temperature Range	T_{stg}		-40 to 125	$^{\circ}C$
Mounting Torque	F_{tor}	Recommended torque (GCQ, FCQ)	0.5 (5.1)	N·m (kgf·cm)

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 10A$ $T_j = 25^{\circ}C$ per diode leg	0.55	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^{\circ}C$ per diode leg	10	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.5	$^{\circ}C/W$
	$R_{th(c-f)}$	Case to Fin (FCQ-Type)	1.5	

