

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

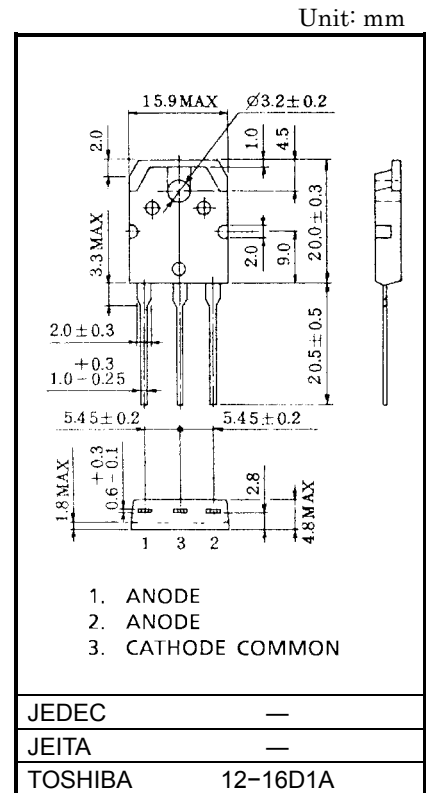
20JL2C41A

SWITCHING MODE POWER SUPPLY APPLICATIONS
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 600V$
- Average Output Rectified Current : $I_O = 20A$
- Ultra Fast Reverse-Recovery Time : $t_{rr} = 35ns$ (Max)
- Low Switching Losses and Output Noise.

MAXIMUM RATINGS ($T_a = 25^\circ C$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--------------------------------------------------|-----------|------------------------|------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 600 | V |
| Average Output Rectified Current | I_O | 20 | A |
| Peak One Cycle Surge Forward Current (Sine Wave) | I_{FSM} | 80 (50Hz) 88 (60Hz) | A |
| Junction Temperature | T_j | -40~150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -40~150 | $^\circ C$ |
| Screw Torque | — | 0.8 | N·m |



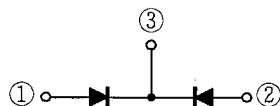
Weight: 4.85g

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

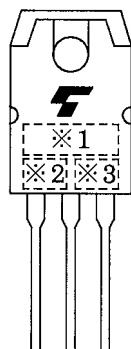
| CHARACTERISTIC | SYMBOL | TEST CONDITION | TYP. | MAX | UNIT |
|---------------------------------|---------------|-------------------------------------|------|-----|----------------|
| Peak Forward Voltage | V_{FM} | $I_{FM} = 10A$ | — | 3.2 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM} = 600V$ | — | 100 | μA |
| Reverse Recovery time | t_{rr} | $I_F = 2A, di / dt = - 50A / \mu s$ | — | 35 | ns |
| Forward Recovery time | t_{fr} | $I_F = 1A$ | — | 100 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | DC Total, Junction to Case | — | 1.5 | $^\circ C / W$ |

Note 1: V_{FM} , I_{RRM} , t_{rr} , t_{fr} ... A value of one cell.

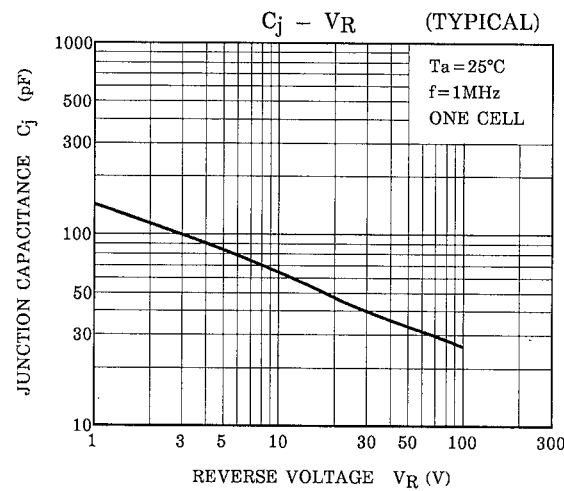
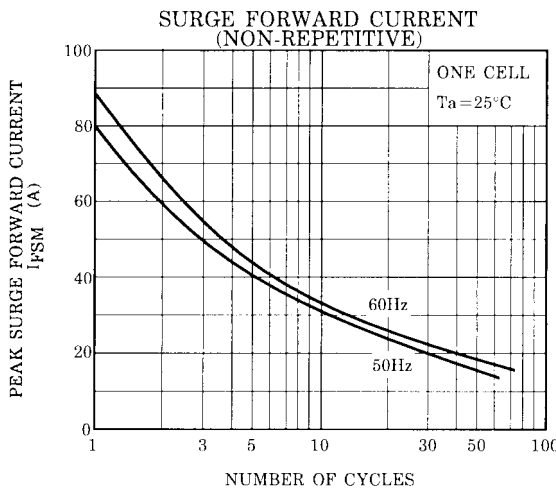
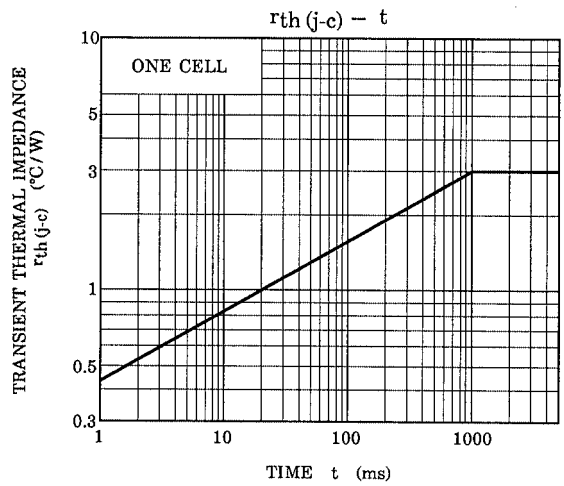
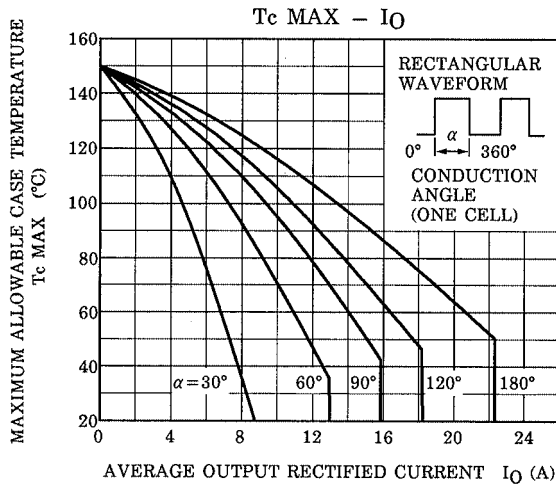
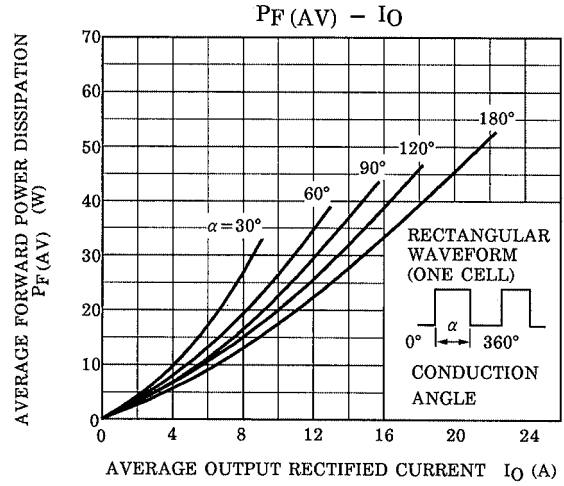
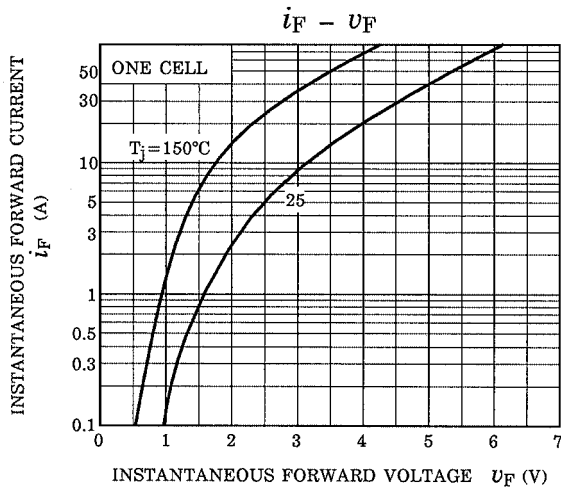
POLARITY



MARKING



| | | |
|-----|--------------------------------------------|--------|
| * 1 | MARK | 20JL2C |
| * 2 | A | |
| * 3 | Lot Number | |
| | □ □ —Month (Starting from Alphabet A) | |
| | □ —Year (Last Number of the Christian Era) | |



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000707EAA

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