

4 定格・特性表

E ショットキー・バリア・ダイオード SCHOTTKY BARRIER DIODES (SBD)

1 単体 (その1) SINGLE CHIP

| Type No. | VRRM | VRSM | IF(RMS) | IO | IFSM | IRM | VFM | Tjw * | Tstg | Rth(j-c) | Weight | Torque | Outline |
|----------------------|------|------|---------|-----|------|-----|--------------------|----------|----------|---|----------------------------|-----------------|----------------------|
| | V | V | A | A | A | mA | V | °C | °C | °C/W | g | N·m (kgf·cm) | No. |
| EP05Q03L | 30 | — | 0.785 | 0.5 | 8 | 0.2 | 0.45 (IFM=0.5A) | -40 } | -40 } | 300 (j-a) | 0.011 | — | 102 |
| 04 | 40 | — | | | | 0.1 | 0.51 (IFM=0.5A) | +150 | +150 | | | | |
| 06 | 60 | — | | | | 0.1 | 0.62 (IFM=0.5A) | | | | | | |
| EC10QS03L | 30 | — | 1.57 | 1 | 20 | 1 | 0.45 (IFM=1A) | -40 } | -40 } | 108 (j-a) | 0.06 | — | 2 |
| 04 | 40 | 45 | | | | | 0.55 (IFM=1A) | +150 | +150 | alumina substrate mounted | | | |
| 06 | 60 | 65 | | | | | 0.58 (IFM=1A) | | | | | | |
| 09 | 90 | — | | | | 0.5 | 0.85 (IFM=1A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |
| 11EQS03L | 30 | — | 1.57 | 1 | 40 | 1 | 0.45 (IFM=1A) | -40 } | -40 } | 110 (j-a) | 0.17 | — | 1 |
| 04 | 40 | 45 | | | | | 0.55 (IFM=1A) | +150 | +150 | PC.board mounted | | | |
| 06 | 60 | 65 | | | 25 | | 0.58 (IFM=1A) | | | | | | |
| 09 | 90 | — | | | 40 | 0.5 | 0.85 (IFM=1A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |
| 11EQ04 | 40 | 45 | 1.57 | 1 | 40 | 1 | 0.55 (IFM=1A) | -40 } | -40 } | 105 (j-a) | 0.21 | — | 1 |
| 06 | 60 | 65 | | | 25 | | 0.58 (IFM=1A) | +150 | +150 | PC.board mounted | | | |
| 09 | 90 | — | | | 40 | 0.5 | 0.85 (IFM=1A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |
| 11DQ04 | 40 | 45 | 1.57 | 1 | 40 | 1 | 0.55 (IFM=1A) | -40 } | -40 } | 81 (j-a) | 0.33 | — | 1 |
| 06 | 60 | 65 | | | 25 | | 0.58 (IFM=1A) | +150 | +150 | PC.board mounted | | | |
| 09 | 90 | — | | | 40 | 0.5 | 0.85 (IFM=1A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |
| EC21QS03L | 30 | — | 3.14 | 2.0 | 50 | 2 | 0.47 (IFM=2A) | -40 } | -40 } | 108 (j-a) | 0.06 | — | 2 |
| 04 | 40 | — | | | 60 | 1 | 0.55 (IFM=2A) | +150 | +150 | alumina substrate mounted | | | |
| 06 | 60 | — | | | 40 | 2 | 0.61 (IFM=2A) | | | | | | |
| 09 | 90 | — | | | 50 | 1 | 0.85 (IFM=2A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |
| 21DQ03L | 30 | — | 2.67 | 1.7 | 50 | 2 | 0.45 (IFM=1.7A) | -40 } | -40 } | 80 (j-a) | 0.38 | — | 1 |
| 04 | 40 | 45 | | | 80 | 1 | 0.55 (IFM=2A) | +150 | +150 | PC.board mounted | | | |
| 06 | 60 | 65 | | | 45 | 2 | 0.58 (IFM=1.7A) | | | 70 (j-a) | | | |
| 09 | 90 | — | | | 70 | 1 | 0.85 (IFM=2A) | | | PC.board mounted | | | |
| 10 | 100 | — | | | | | | | | | | | |
| EA20QS04, EA20QS04-F | 40 | 45 | 2.67 | 1.7 | 40 | 2 | 0.55 (IFM=2A) | -40 } | -40 } | 7 (80(j-a) PC. board mounted) | 0.35 (F type = 0.30) | — | 4 (F type = 5) |
| EA20QS06, EA20QS06-F | 60 | 65 | | | | | 0.58 (IFM=1.7A) | +150 | +150 | | | | |
| EA20QS09, EA20QS09-F | 90 | — | | | | 1 | 0.85 (IFM=2A) | | | | | | |
| EA20QS10, EA20QS10-F | 100 | — | | | | | | | | | | | |
| EC31QS03L | 30 | — | 4.71 | 3 | 60 | 3 | 0.45 (IFM=3A) | -40 } | -40 } | 108 (j-a) | 0.06 | — | 2 |
| 04 | 40 | — | | | 60 | 3 | 0.55 (IFM=3A) | +150 | +150 | alumina substrate mounted | | | |
| 06 | 60 | — | | | 50 | 3 | 0.61 (IFM=3A) | | | | | | |
| 09 | 90 | — | | | 60 | 2 | 0.85 (IFM=3A) | | | | | | |
| 10 | 100 | — | | | | | | | | | | | |

E ショットキー・バリア・ダイオード SCHOTTKY BARRIER DIODES (SBD)

I 単体 (その2) SINGLE CHIP (Continued)

| Type No. | VRRM | VRRSM | IF(RMS) | IO | IFSM | IRM | VFM | T _{jw} * | Tstg | Rth(j-c) | Weight | Torque N·m {kgf·cm} | Outline No. |
|------------------------|------|------------------|------------------|----|------|-----|-------------------|-------------------|-------------|--|---------------------------|---------------------------|-----------------------|
| | V | V | A | A | A | mA | V | °C | °C | °C/W | g | | |
| ESL03B03, ESL03B03-F | 30 | — | 4.71 | 3 | 45 | 3 | 0.47 (IFM=3A) | -40 +100 | -40 +125 | 6 | 0.35 (F type =0.30) | — | 4 (F type =5) |
| EA30QS04, EA30QS04-F | 40 | 45 | 4.71 | 3 | 45 | 3 | 0.55 (IFM=3A) | -40 +150 | -40 +150 | 6 (80(j-a) P.C. board mounted) | 0.35 (F type =0.30) | — | 4 (F type =5) |
| EA30QS06, EA30QS06-F | 60 | 65 | 4.71 | 3 | 45 | 3 | 0.58 (IFM=3A) | -40 +150 | -40 +150 | 6 (80(j-a) P.C. board mounted) | | | |
| EA30QS09, EA30QS09-F | 90 | — | | | | | 1 | | | | | | |
| EA30QS10, EA30QS10-F | 100 | — | 0.85 (IFM=3A) | | | | | | | | | | |
| 31DQ03L | 30 | — | 4.71 | 3 | 120 | 3 | 0.45 (IFM=3A) | -40 +150 | -40 +150 | 34 (j-a) with heat sink | 1.21 | — | 1 |
| 04 | 40 | 45 | 4.71 | 3 | 120 | 3 | 0.55 (IFM=3A) | -40 +150 | -40 +150 | 34 (j-a) with heat sink | 1.21 | — | 1 |
| 06 | 60 | 65 | | | | | 75 | | | | | | |
| 09 | 90 | — | 4.71 | 3 | 120 | 3 | 0.45 (IFM=3A) | -40 +150 | -40 +150 | 34 (j-a) with heat sink | 1.21 | — | 1 |
| 10 | 100 | — | | | | | | | | | | | |
| NSQ03A03L | 30 | — | 4.71 | 3 | 120 | 3 | 0.45 (IFM=3A) | -40 +150 | -40 +150 | 89 (j-a) alumina substrate mounted | 0.16 | — | 3 |
| 04 | 40 | — | 4.71 | 3 | 120 | 3 | 0.55 (IFM=3A) | -40 +150 | -40 +150 | 89 (j-a) alumina substrate mounted | 0.16 | — | 3 |
| 06 | 60 | — | | | | | 80 | | | | | | |
| GSQ05A04, GSQ05A04B | 40 | 45 | 7.85 | 5 | 120 | 5 | 0.55 (IFM=5A) | -40 +150 | -40 +150 | 5 | 1.85 (B type =1.90) | 0.5 {5.1} | 8 (B type =9) |
| GSQ05A06, GSQ05A06B | 60 | 65 | 7.85 | 5 | 120 | 5 | 0.58 (IFM=5A) | -40 +150 | -40 +150 | 5 | 1.85 (B type =1.90) | 0.5 {5.1} | 8 (B type =9) |
| FSQ05A04, FSQ05A04B | 40 | 45 | | | | | 7.85 | | | | | | |
| FSQ05A06, FSQ05A06B | 60 | 65 | 7.85 | 5 | 120 | 5 | 0.58 (IFM=5A) | -40 +150 | -40 +150 | 5 | 1.70 (B type =1.75) | 0.5 {5.1} | 10 (B type =11) |
| GSQ10A04, GSQ10A04B | 40 | 45 | | | | | 15.7 | | | | | | |
| GSQ10A06, GSQ10A06B | 60 | 65 | 15.7 | 10 | 180 | 10 | 0.67 (IFM=10A) | -40 +150 | -40 +150 | 3 | 1.85 (B type =1.90) | 0.5 {5.1} | 8 (B type =9) |
| FSQ10A04, FSQ10A04B | 40 | 45 | | | | | 15.7 | | | | | | |
| FSQ10A06, FSQ10A06B | 60 | 65 | 15.7 | 10 | 180 | 10 | 0.67 (IFM=10A) | -40 +150 | -40 +150 | 3 | 1.70 (B type =1.75) | 0.5 {5.1} | 10 (B type =11) |
| KSQ15A04, KSQ15A04B | 40 | 45 | | | | | 23.5 | | | | | | |
| KSQ15A06, KSQ15A06B | 60 | 65 | 23.5 | 15 | 250 | 15 | 0.65 (IFM=15A) | -40 +150 | -40 +150 | 2 | 5.50 (B type =5.55) | 0.5 {5.1} | 12 (B type =13) |
| 16MQ40 | 40 | 45 | | | | | 24 | | | | | | |
| 60 | 60 | 65 | 24 | 15 | 300 | 15 | 0.65 (IFM=15A) | -40 +150 | -40 +150 | 2 | 5.5 {17.3} | 1.7 {15.3} | 19 |
| KSQ30A04, KSQ30A04B | 40 | 45 | | | | | 47.1 | | | | | | |
| KSQ30A06, KSQ30A06B | 60 | 65 | 47.1 | 30 | 400 | 25 | 0.67 (IFM=30A) | -40 +150 | -40 +150 | 1.3 | 5.50 (B type =5.55) | 0.5 {5.1} | 12 (B type =13) |
| KSL60A01B | 10 | — | | | | | 94.2 | | | | | | |
| KSQ60A03LE, KSQ60A03LB | 30 | 35(注) (VRRSM) | 94.2 | 60 | 700 | 40 | 0.49 (IFM=60A) | -40 +100 | -40 +125 | 0.75 | 6 (B type =5.55) | 0.5 {5.1} | 14 (B type =13) |
| KSQ60A04E, KSQ60A04B | 40 | 45 | | | | | 0.55 (IFM=60A) | | | | | | |
| KSQ60A06E, KSQ60A06B | 60 | 65 | | | | | 0.67 (IFM=60A) | -40 +150 | | | | | |
| 61MQ40 | 40 | 45 | | | | | 94 | 60 | 800 | 40 | 0.58 (IFM=60A) | -40 +150 | -40 +150 |
| 60 | 60 | 65 | 94 | 60 | 800 | 40 | 0.67 (IFM=60A) | -40 +150 | -40 +150 | 0.75 | 18 | 2.9 {24} | 24 |
| | | | | | | | 700 | | | | | | |

(注) VRRSM : Pulse Width ≤ 1μs, Duty ≤ 1/50.