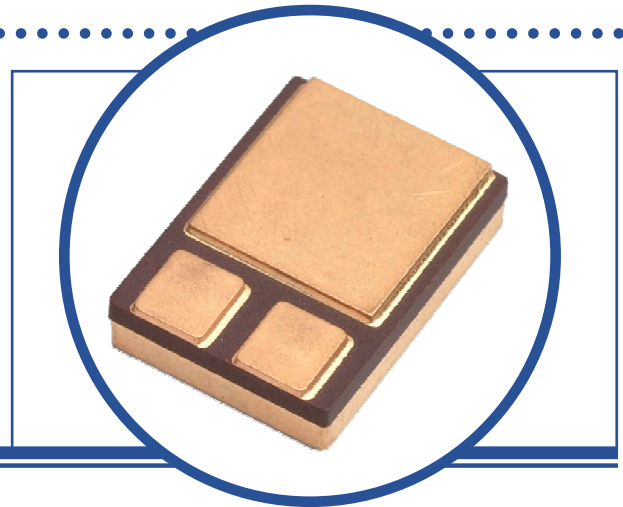


# DUAL FAST RECOVERY RECTIFIER DIODE

## BYV34-400MN2

- Dual Fast Rectifiers with Common Cathode
- Very Low Reverse Recovery Time –  $t_{rr} < 35\text{ns}$ .
- High Voltage 400V.
- Hermetic Ceramic Surface Mount Package.
- Ideally Suited For Switching Power Supplies, Inverters and as Free Wheeling Diodes.
- Space Level and High-Reliability Screening Options Available



### ABSOLUTE MAXIMUM RATINGS (Per Diode, $T_C = 25^\circ\text{C}$ unless otherwise stated)

$V_{RRM}$	Repetitive Peak Reverse Voltage	400V
$V_{RWM}$	Working Peak Reverse Voltage	400V
$V_R$	Continuous Reverse Voltage	400V
$I_{FRM}^{(1)}$	Repetitive Peak Forward Current	130A
$I_{F(AV)}^{(2)}$	Average Forward Current ( $T_C = 70^\circ\text{C}$ )	20A
$I_{FSM}^{(3)}$	Surge Peak Forward Current	200A
$T_{STG}$	Storage Temperature Range	-65 to +200°C
$T_J$	Maximum Operating Junction Temperature	+200°C

### THERMAL PROPERTIES

Symbol	Parameter	Max	Units
$R_{\theta JC}$	Thermal Resistance Junction to Case (per diode)	1.75	°C/W

#### Notes

- (1)  $T_C = 25^\circ\text{C}$  @  $I_{F(AV)} = 10\text{A}$  and  $V_{RWM}$ , 8.3ms sinusoidal surges @ Duty Cycle = 0.16, rating per diode.
- (2) Switching operation, Duty Cycle = 50%, both diodes conducting.
- (3)  $T_C = 25^\circ\text{C}$  @  $I_{F(AV)} = 10\text{A}$  and  $V_{RWM}$  for ten 8.3ms sinusoidal surges at 1 minute intervals, rating per diode.

