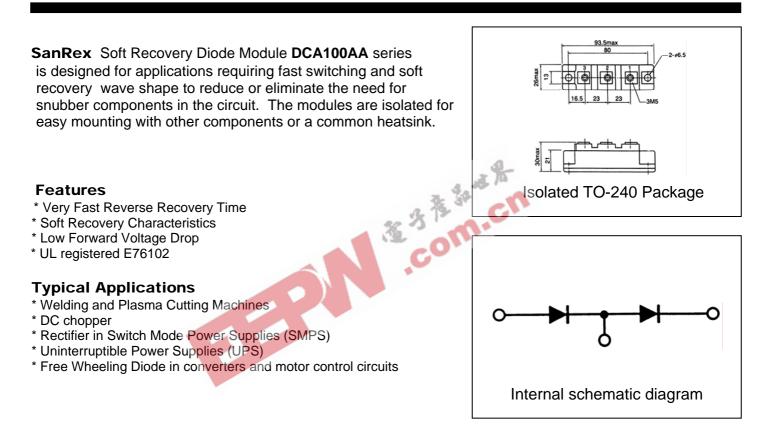
SanRex®

Soft Recovery Diode

DCA100AA50/60

IF(AV)= 100A, VRRM=600V trr=220ns, Softness=0.8



< Maximum Ratings >

 $T_j = 25^{\circ}C$ (unless otherwise noted) per diode

| Symbol | Item | Ratings | | Unit |
|--------------------|------------------------------------|------------|------------|------|
| | | DCA100AA50 | DCA100AA60 | |
| V _{RRM} | Repetitive Peak Reverse Voltage | 500 | 600 | V |
| V _{R(DC)} | Reverse D.C. Voltage | 400 | 480 | V |

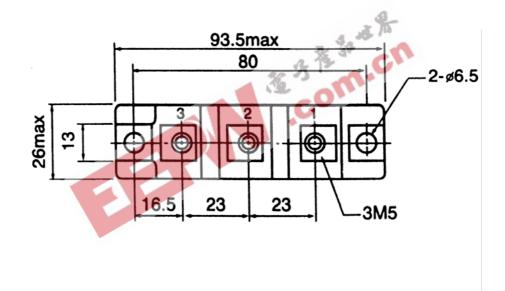
| I _{F(AV)} | Average F | orward Current | D.C., T _C = 85°C | 100 | A |
|--------------------|-------------------------------|-----------------|---|-------------|------------------|
| I _{FSM} | Surge Forward Current | | 1/2 cycle, 60Hz, Peak value, non-repetitive | 2000 | A |
| l ² t | I ² t (for fusing) | | Value for one cycle surge current | 16700 | A ² s |
| Tj | Junction Temperature | | | -40 to +150 | °C |
| Tstg | Storage Temperature | | | -40 to +125 | °C |
| V _{ISO} | Isolation V | oltage (R.M.S.) | A.C. 1 minute | 2500 | V |
| | Mounting | Mounting M6 | Recommended 2.5-3.9 | 4.7 | N∙m |
| | Torque | Terminal M5 | Recommended 1.5-2.5 | 2.7 | |
| | Mass | | Typical Value | 170 | g |

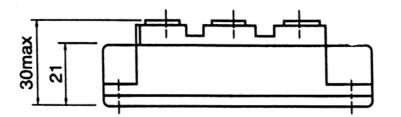
SanRex_®

Soft Recovery Diode

DCA100AA50/60

| < Electric | cal Characteristics > | Tj= 25 °C (unless otherwise noted) per diode | | | | |
|--------------------------------|-------------------------|--|---------|------|------|------|
| Symbol | Item | Conditions | Ratings | | Unit | |
| | | | Min. | Тур. | Max. | |
| I _{RRM} | Repetitive Peak Reverse | $V_R = V_{RRM}$, Tj= 125°C | | | 100 | mA |
| | Current | | | | | |
| V_{FM} | Forward Voltage Drop | I _F = 100A, Inst. measurement | | 1.18 | 1.30 | V |
| t _{rr} | Reverse Recovery Time | I _F = 100A, V _R =300V, -di / dt = 100A/F s | | 220 | 300 | n s |
| t _b /t _a | Softness | I _F = 100A, V _R =300V, -di / dt = 100A/F S | 0.80 | | | |
| Rth(j-c) | Thermal Resistance | Junction to case | | | 0.5 | °C/W |
| | | | | | | |





* Dimensions in millimeters