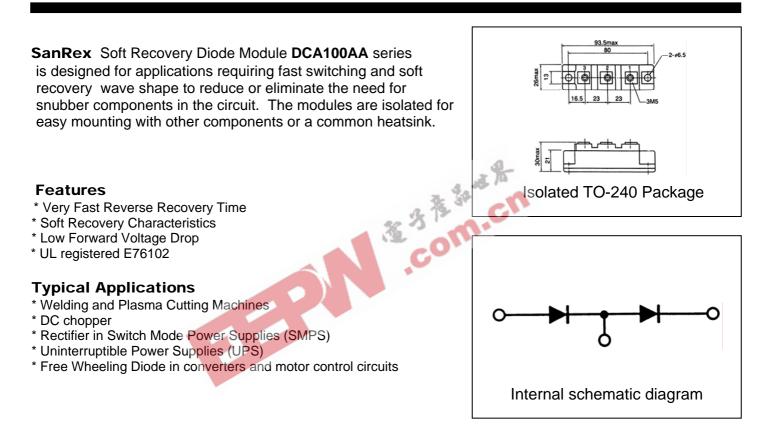
SanRex®

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

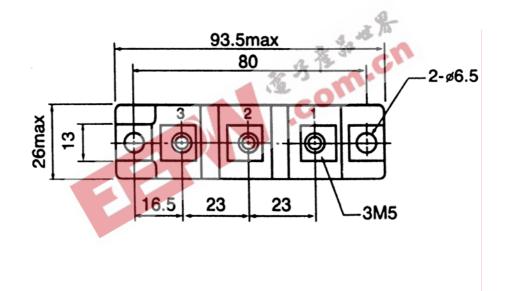
I _{F(AV)}	Average F	orward Current	D.C., T _C = 85°C	100	A
I _{FSM}	Surge Forward Current		1/2 cycle, 60Hz, Peak value, non-repetitive	2000	A
l ² t	I ² t (for fusing)		Value for one cycle surge current	16700	A ² s
Tj	Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
V _{ISO}	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

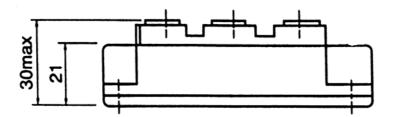
SanRex_®

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