SanRex®

Fast & Soft Recovery Diode

DBA200UA60

IF(AV)= 2x100A, VRRM=600V, trr=150ns

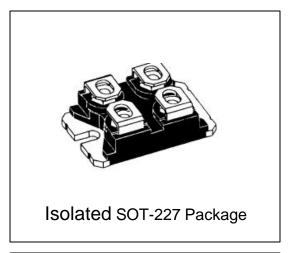
SanRex Fast & Soft Recovery Diode Module **DBA200UA60** is designed for applications requiring fast switching and soft recovery wave shape to reduce or eliminate the need for snubber components in the circuit. The modules are isolated for easy mounting with other components or a common heatsink.

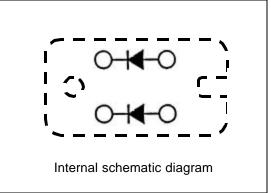
Features

- * Very Fast Reverse Recovery Time
- * Soft Recovery Characteristics
- * Low Forward Voltage Drop
- * Compact isolated SOT-227 package

Typical Applications

- * Welding and Plasma Cutting Machines
- * DC chopper
- * Rectifier in Switch Mode Power Supplies (SMPS)
- * Uninterruptible Power Supplies (UPS)
- * Free Wheeling Diode in converters and motor control circuits





< Maximum Ratings >

 $T_1 = 25^{\circ}C$ (unless otherwise noted) per diode

Symbol		Item	Conditions	Ratings	Unit
V_{RRM}	Repetitive Voltage	Peak Reverse		600	V
$V_{R(DC)}$.C. Voltage		480	V
I _{F(AV)}	Average Fo	orward Current	D.C., T _C = 89°C	100	Α
I_{FSM}	Surge Forv	vard Current	½ cycle, 60Hz, Peak value, non-repetitive	700	Α
l²t	I 2 t (for fusing)		Value for one cycle surge current	2100	A ² s
Tj	Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
V_{ISO}	Isolation Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting	Mounting M4	Recommended 1.0-1.4	1.5	N∙m
	Torque	Terminal M4	Recommended 1.0-1.4	1.5]
	Mass		Typical Value	30	g

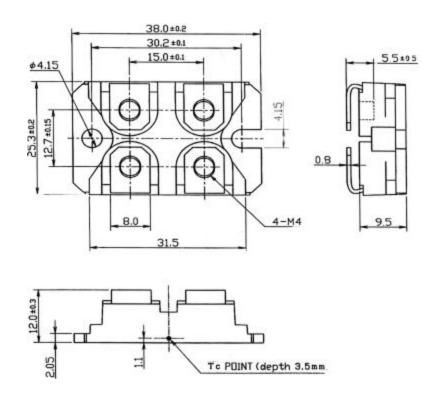
Fast & Soft Recovery Diode

DBA200UA60

< Electrical Characteristics >

Tj= 25 C (unless otherwise noted) per	er diode
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Symbol	Item	Conditions	Ratings			Unit
			Min.	Тур.	Max.	
I _{RRM}	Repetitive Peak Reverse	$V_R = V_{RRM}$, $T_{j=150^{\circ}C}$			100	mA
	Current					
V_{FM}	Forward Voltage Drop	I _F = 100A, Inst. measurement		1.20	1.35	V
t rr	Reverse Recovery Time	I_F = 100A, V_R =300V, -di / dt = 200A/Fs		150	250	n s
Rth(j-c)	Thermal Resistance	Junction to case			0.45	°C/W



* Dimensions in millimeters