

Schottky Barrier Diode

BKR400AC10

IO(AV)= 400A, VRRM=100V, VFM=0.68V

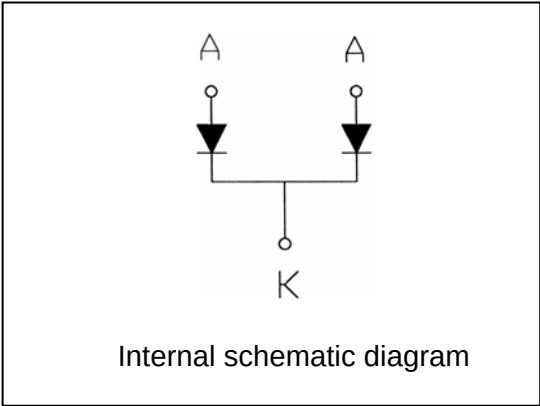
SanRex outstanding metal barrier technology allows **BKR400AC10** Schottky Barrier Diode Module to feature a very low forward voltage drop. This device also has low leakage current, low thermal resistance and improved avalanche energy rating. These benefits make this design an extremely reliable and efficient device for use in wide variety of applications requiring high power and low conduction loss.

Features

- * Very Low Forward Voltage Drop
- * Avalanche Energy Rated
- * High Surge Current
- * RoHS Compliance

Typical Applications

- * Rectifier in Switch Mode Power Supplies (SMPS)
- * Power Supplies for Plating
- * Uninterruptible Power Supplies (UPS)
- * Free Wheeling Diode in Converters



< Maximum Ratings >			Tj = 25°C (unless otherwise noted)	
Symbol	Item		Ratings	Unit
VRRM	Repetitive Peak Reverse Voltage		100	V
IO(AV)	Average Forward Current		400	A
IFSM	Surge Forward Current (Per leg)		3300/3620	A
I ² t	I ² t (for fusing) (Per leg)		54450	A ² s
EAS	Single Pulse Avalanche Energy (Per leg)		15	mJ
Tj	Operating Junction Temperature		-40 to +150	°C
Tstg	Storage Temperature		-40 to +125	°C
	Mounting Torque	Mounting (M6)	Recommended 2.5-3.9	4.7
		Mounting (M4)	Recommended 1.0-1.4	1.5
		Terminal (M6)	Recommended 2.5-3.9	4.7
	Mass		Typical Value	78
				g

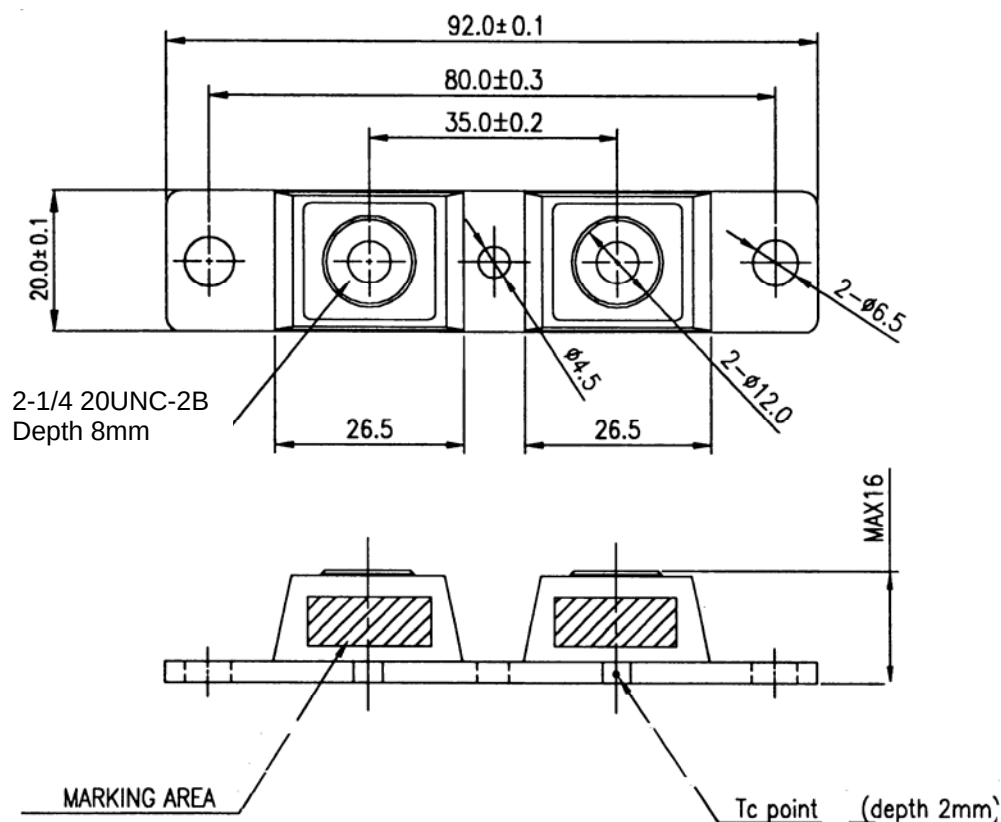
Schottky Barrier Diode

BKR400AC10

< Electrical Characteristics >

T_j = 25 °C (unless otherwise noted)

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive Peak Reverse Current	V _D = 100V, T _j = 125°C, Pulse width < 300μs, Duty < 2%			40	mA
V _{FM}	Forward Voltage Drop (Per leg)	I _F = 200A, Inst. measurement			0.82	V
		I _F = 400A, Inst. measurement			0.93	
		I _F = 200A, T _j = 125°C Inst. measurement			0.68	
		I _F = 400A, T _j = 125°C Inst. measurement			0.78	
R _{th(j-c)}	Thermal Resistance (Per leg)	Junction to case			0.2	°C/W



- * Note : 1. Dimensions in millimeters
 2. Terminal type
 BKR400AB series - M6
 BKR400AC series - 1/4-20