

PRODUCT FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Leakage Current

APPLICATIONS

- Freewheeling, Snubber, Clamp
- Inversion Welder
- PFC
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- UPS

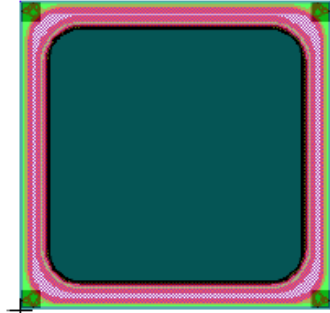
DIE SIZE: 1.60×1.60 mm²

BONDING SIZE: 1.27×1.27 mm²

DIE THICKNESS: 210 μm

TOP METAL: Al

BACK METAL: Ag



ABSOLUTE MAXIMUM RATINGS

T_C=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Unit
V _R	D.C. Reverse Voltage	I _R =100uA	400	V
V _{R(RM)}	Repetitive Reverse Voltage		400	V
Symbol	Parameter	Test Conditions	Max.	Unit
I _{F(AV)}	Average Forward Current		8	A
I _{F(RMS)}	RMS Forward Current		11.2	A
T _J	Junction Temperature		-55 to +150	°C

ELECTRICAL AND THERMAL CHARACTERISTICS

T_C=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{RM}	Reverse Leakage Current	V _R =400V, T _J =25°C	--	--	10	μA
		V _R =400V, T _J =125°C	--	--	500	μA
V _F	Forward Voltage	I _F =8A, T _J =25°C	--	1.1	1.3	V
		I _F =8A, T _J =125°C	--	0.98	--	V
t _{rr}	Reverse Recovery Time	I _F =0.5A, I _R =1A, I _{RR} =0.25A	--	--	50	ns
		I _F =1A, V _R =30V, di/dt=-200A/us	--	--	38	ns
t _{rr}	Reverse Recovery Time	I _F =8A V _R =200V di _F /dt=-200A/μs	T _J =25°C	--	45	ns
t _{rr}	Reverse Recovery Time		T _J =125°C	--	70	ns
Q _{rr}	Reverse Recovery Charge		T _J =125°C	--	180	nC
I _{RRM}	Max. Reverse Recovery Current		T _J =125°C	--	5.0	A