



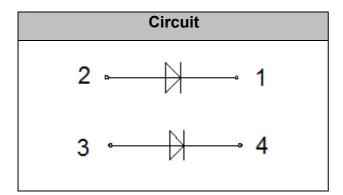
Features

- Ultrafast Reverse Recovery Time
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- LPopular SOT-227 Package

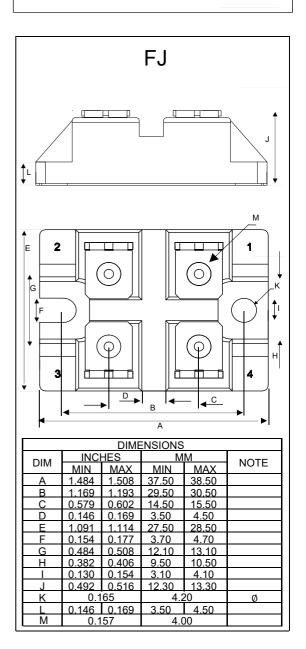
Applications

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Power Factor Correction (PFC) Circuit
- Converter & Chopper











Maximum Ratings

Symbol	Conditions	Values	Units	
V _R		1200	V	
V _{RRM}		1200	V	
	T _c =90°C, Per Leg	100	А	
I _{F(AV)}	T _C =90°C, Per Moudle	200	А	
	T _c =100°C, 20KHz, Per Moudle	120	А	
I _{F(RMS)}	T _c =90°C, Per Leg	141	А	
	1/2 Cycle , 50Hz, Sine	1450	А	
I _{FSM}	1/2 Cycle , 60Hz, Sine	1600	А	
l ² t —	T _J =45°C, t=10ms, 50Hz, Sine	10512	A ² s	
11	TJ=45°C, t=8.3ms, 60Hz, Sine	12800	A ² s	
PD	T _c =25°C	320	W	
TJ		-40 to +150	°C	
T _{STG}		-40 to +125	°C	
Visol	3600V AC 1s	1	mA	
Torque	To Sink Recommended (M4)	0.6~1.2 N·m		
Torque	To Terminal Recommended (M4)	0.6~1	N∙m	
Weight		27	g	

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Juntion To-Case	0.32	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Тур.	Max.	Units
I _{RM}	V _R =1200V			0.5	mA
	V _R =1200V, T _J =125°C			5	mA
V _F	I _F =100A		1.6		V
	I _F =100A, T _J =125°C		1.38		V
trr	I _F =1A, V _R =30V, di _F /dt=-200A/μs		45		ns
trr	(-600)/(-1000)		135		ns
I _{RRM}	V _R =600V, I _F =100A, di _F /dt=-200A/µs, T _J =25°C		10		А
trr	V _R =600V, I _F =100A, di _F /dt=-200A/µs, T _J =125°C		380		ns
I _{RRM}			21		А



Performance Curves

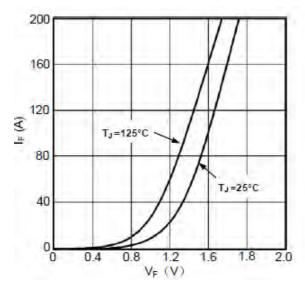


Fig1. Forward Voltage Drop vs Forward Current

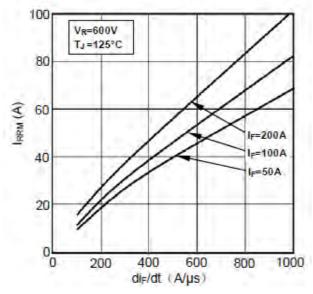


Fig3. Reverse Recovery Current vs di_F/dt

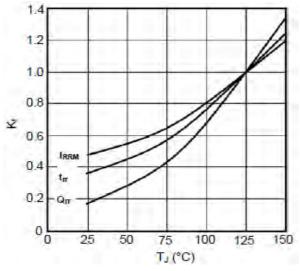


Fig5. Dynamic Parameters vs Junction Temperature

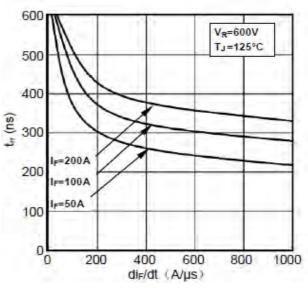


Fig2. Reverse Recovery Time vs di_F/dt

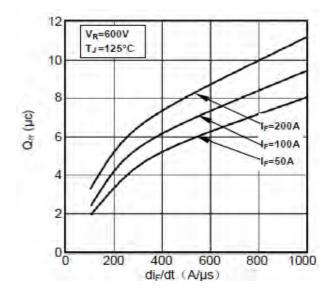
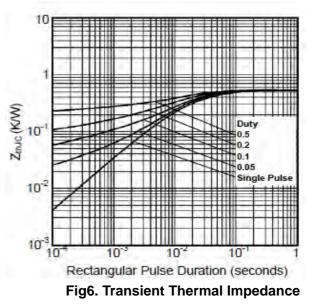


Fig4. Reverse Recovery Charge vs di_F/dt





Ordering Information

Device	Packing	
Part Number-BP	Bulk: 25PCS/BOX ;125PCS/CTN	

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