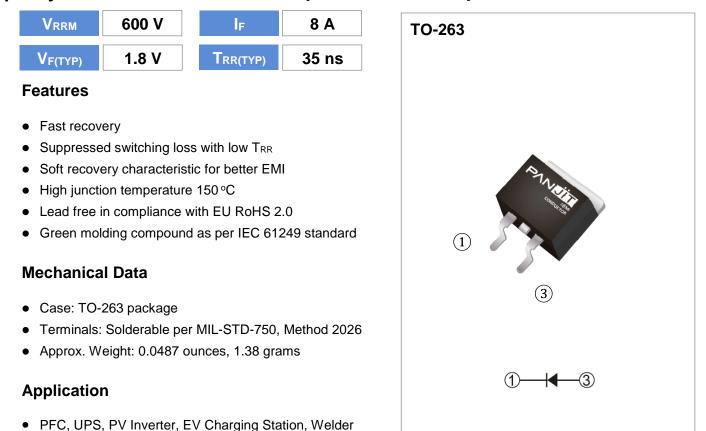


Speedy Diode - Short Reverse Recovery Time, Fast Recovery Diode



Maximum Ratings and Thermal Characteristics (Tc = 25 °C unless otherwise specified)

PARAMETER	SYMBOL	LIMIT	UNITS
Repetitive Peak Reverse Voltage	V _{RRM}	600	V
DC Blocking Voltage	V _{DC}	600	V
Diode Forward Current @ Tc=130 °C	I _{F(AV)}	8	А
Repetitive Peak Surge Current <i>tp</i> = 8.3 <i>ms, sine-wave, D</i> =0.5	I _{FRM}	16	А
Peak Forward Surge Current <i>tp</i> = 8.3 <i>ms, single half sine-wave</i>	IFSM	75	A
Maximum Power Dissipation	P _{total}	69	W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Тѕтс	-55~150	°C



Electrical Characteristics ($T_c = 25$ °C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward voltage drop	VF	I _F = 8 A, T _J = 25 °C	-	1.8	2.3	V	
		I _F = 8 A, T _J = 125 °C	-	1.45	-		
Reverse leakage current	I _R	$V_R = 600 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	-	100	μA	
		$V_R = 600 \text{ V}, T_J = 125 ^{\circ}\text{C}$	-	-	500	μA	
Reverse recovery time	T _{RR}	I _F =0.5A, I _R =1A, I _{RR} =0.25A T _J = 25 °C	-	-	35	ns	
		$I_F = 1 \text{ A}, V_R = 30 \text{ V},$ di/dt = 300 A/µs, $T_J = 25 \text{ °C}$	-	-	30	ns	
Reverse recovery time	T _{RR}	I _F = 8 A, V _R = 400 V, di/dt = 300 A/μs,	-	35	55	ns	
Peak recovery current	IRRM		-	3.1	-	А	
Reverse recovery charge	Q _{RR}		-	55	-	nC	
Softness factor = tb / ta	S	T _J = 25 °C	-	1.45	-		
Reverse recovery time	T _{RR}		-	55	-	ns	
Peak recovery current	IRRM	$I_F = 8 A, V_R = 400 V,$	-	5.6	-	А	
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs,	-	215	-	nC	
Softness factor = tb / ta	S	T _J = 125 °C	-	0.9	-		
Thermal Resistance	Rejc		-	-	1.8	°C/W	
	R _{θJA}		-	-	62	°C/W	



PSDB0860S1



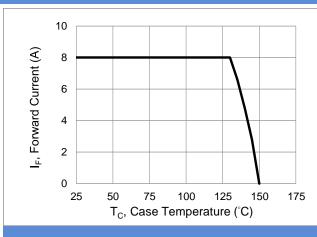


Fig.1 Forward Current Derating Curve

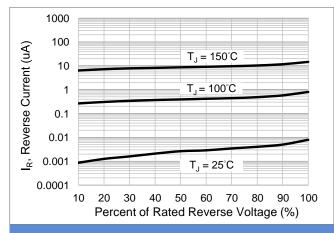
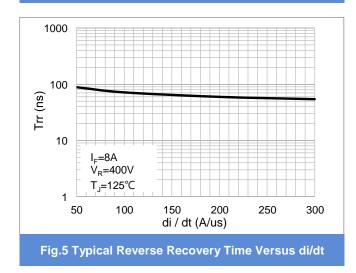


Fig.3 Typical Reverse Characteristics



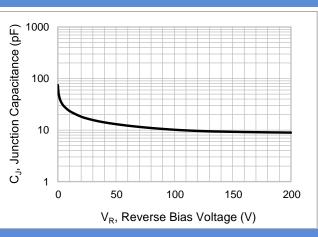


Fig.2 Typical Junction Capacitance

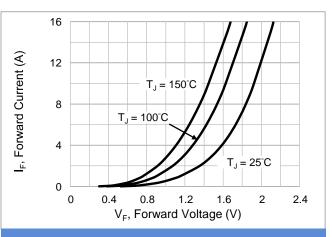
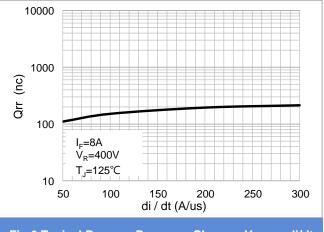


Fig.4 Typical Forward Characteristics

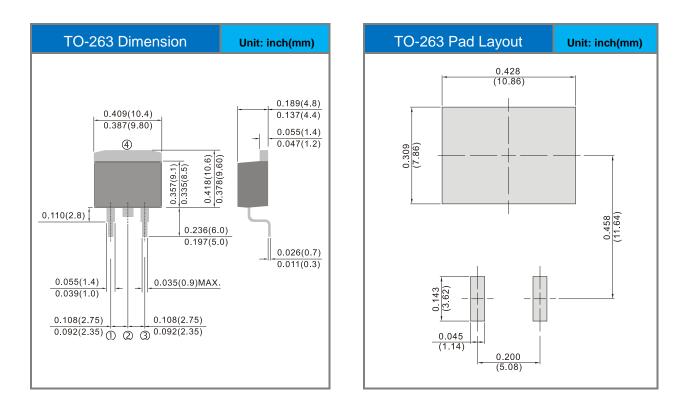




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PSDB0860S1	TO-263	50pcs / Tube	SDB0860S1
F3D6000031	10-205	800pcs / Reel	30000001

Packaging Information & Mounting Pad Layout





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)