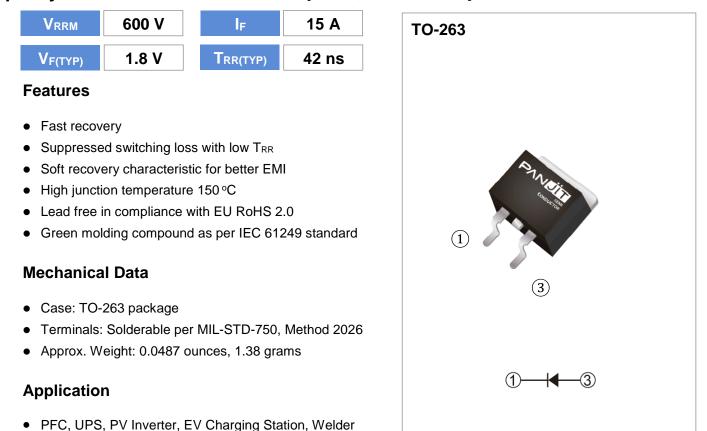


Speedy Diode - Short Reverse Recovery Time, Fast Recovery Diode



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

PARAMETER	SYMBOL	LIMIT	UNITS
Repetitive Peak Reverse Voltage	Vrrm	600	V
DC Blocking Voltage	V _{DC}	600	V
Diode Forward Current @ Tc=120 °C	IF(AV)	15	А
Repetitive Peak Surge Current <i>tp</i> = 8.3 ms, sine-wave, D=0.5	I _{FRM}	30	А
Peak Forward Surge Current <i>tp</i> = 8.3 <i>ms, single half sine-wave</i>	IFSM	140	A
Maximum Power Dissipation	P _{total}	89	W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Тѕтб	-55~150	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward voltage drop	V _F	I _F = 15 A, T _J = 25 °C	-	1.8	2.3	V	
		I _F = 15 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 V, T _J = 125 °C	-	-	500	μA	
Reverse recovery time	Ŧ	I _F =0.5A, I _R =1A, I _{RR} =0.25A T _J = 25 °C	-	-	40	ns	
	T _{RR}	$I_F = 1 \text{ A}, V_R = 30 \text{ V},$ di/dt = 300 A/µs, $T_J = 25 \text{ °C}$	-	-	30	ns	
Reverse recovery time	T _{RR}		-	42	65	ns	
Peak recovery current	IRRM	$I_F = 15 \text{ A}, V_R = 400 \text{ V},$	-	3.3	-	А	
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs,	-	70	-	nC	
Softness factor = tb / ta	S	T _J = 25 °C	-	1.65	-		
Reverse recovery time	T _{RR}		-	62	-	ns	
Peak recovery current	IRRM	$I_F = 15 \text{ A}, V_R = 400 \text{ V},$	-	7.4	-	А	
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs,	-	320	-	nC	
Softness factor = tb / ta	S	T _J = 125 °C	-	0.4	-		
Thermal Resistance	Rejc		-	-	1.4	°C/W	
	R _{θJA}		-	-	58	°C/W	



PANJ

SEMI CONDUCTOR

PSDB1560S1



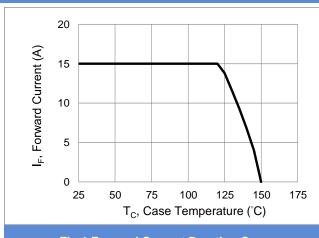


Fig.1 Forward Current Derating Curve

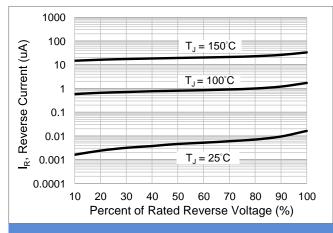
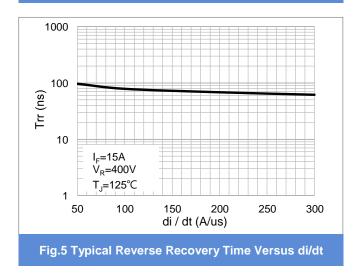


Fig.3 Typical Reverse Characteristics



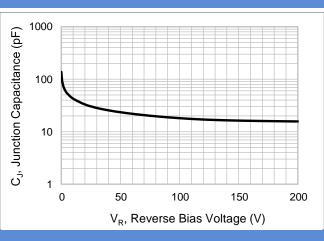


Fig.2 Typical Junction Capacitance

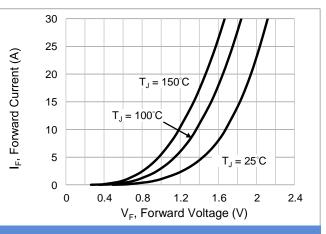
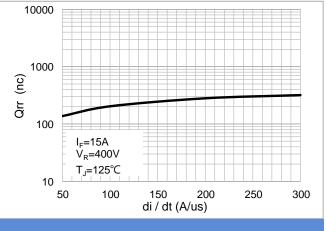


Fig.4 Typical Forward Characteristics

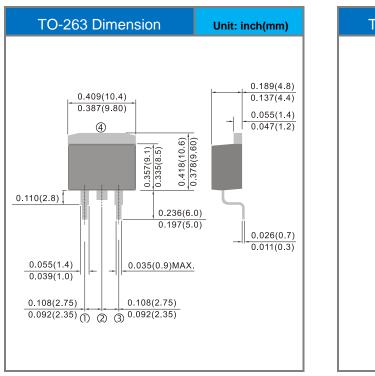


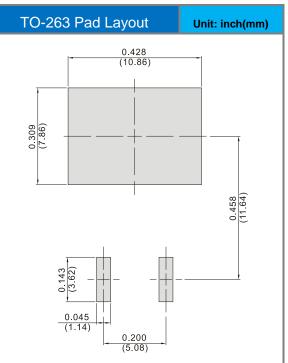


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
		50pcs / Tube	
PSDB1560S1	TO-263	800pcs / Reel	SDB1560S1

Packaging Information & Mounting Pad Layout







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