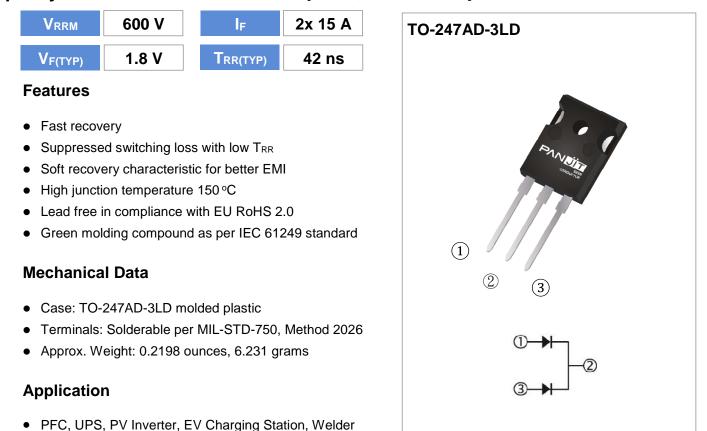


Speedy Diode - Short Reverse Recovery Time, Fast Recovery Diode



Maximum Ratings and Thermal Characteristics (per leg) (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=130°C		15		
Diode Forward Current (Both Legs)	lf(AV)	30	A	
Repetitive Peak Surge Current		20	А	
<i>tp</i> = 8.3 <i>ms</i> , <i>sine-wave</i> , <i>D</i> =0.5	I _{FRM}	30		
Peak Forward Surge Current		140	•	
tp = 8.3 ms, single half sine-wave	IFSM	140	A	
Maximum Power Dissipation	Ptotal	125	W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	Tstg	-55~150	°C	



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward voltage drop	VF	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	Trr	$I_{F}=0.5A, I_{R}=1A,$ $I_{RR}=0.25A$ $T_{J}=25 ^{\circ}C$	-	-	40	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}		-	42	65	ns	
Peak recovery current	I _{RRM}	$I_F = 15 \text{ A}, V_R = 400 \text{ V},$	-	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}	I _F = 15 A, V _R = 400 V, di/dt = 300 A/μs,	-	62	-	ns	
Peak recovery current	I _{RRM}		-	7.4	-	А	
Reverse recovery charge	Q _{RR}		-	320	-	nC	
Softness factor = tb / ta	S	T」= 125 °C	-	0.4	-		
Thermal Resistance	R _{θJC}		-	-	1.0	°C/W	



PSDH3060CCS1



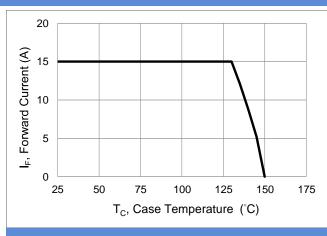


Fig.1 Forward Current Derating Curve

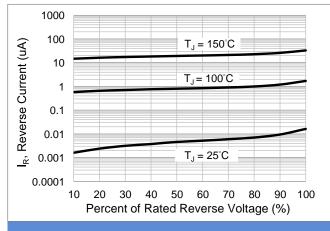
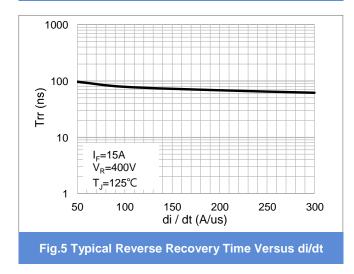


Fig.3 Typical Reverse Characteristics



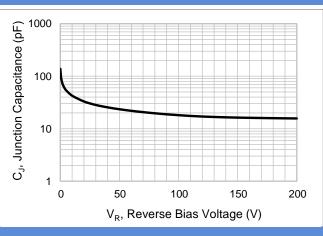


Fig.2 Typical Junction Capacitance

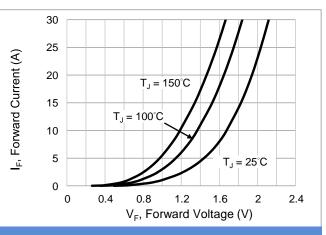
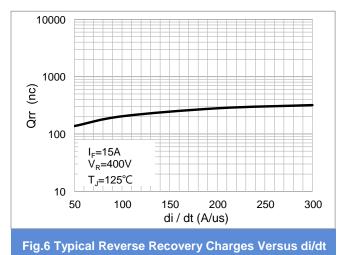


Fig.4 Typical Forward Characteristics

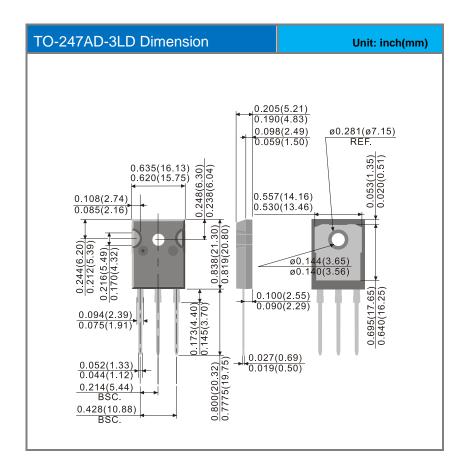




Product and Packing Information

Part No.	Package Type Packing Type		Marking
PSDH3060CCS1	TO-247AD-3LD	30pcs / Tube	SDH3060CCS1

Packaging Information





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