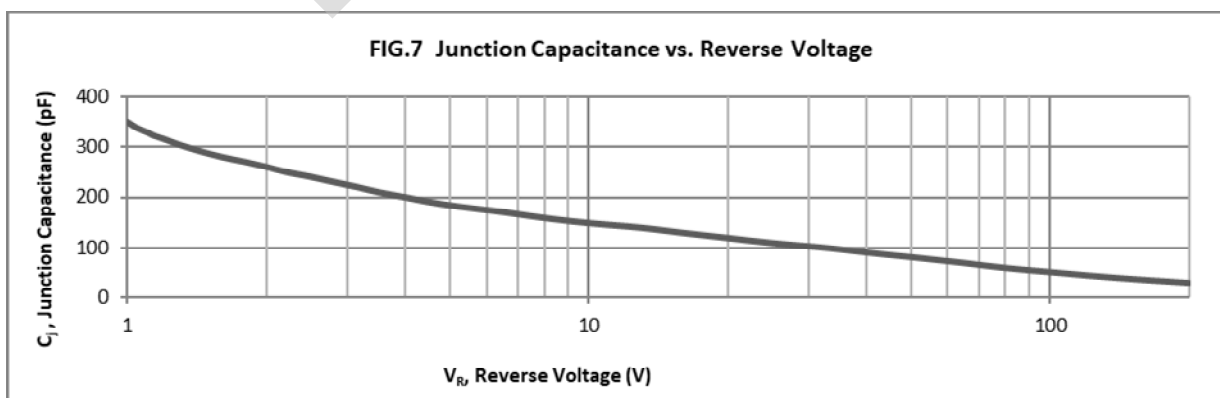
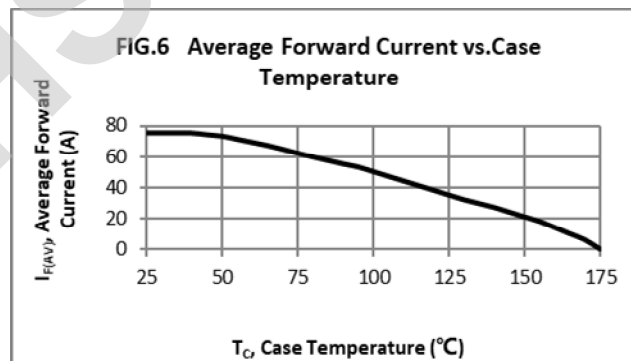
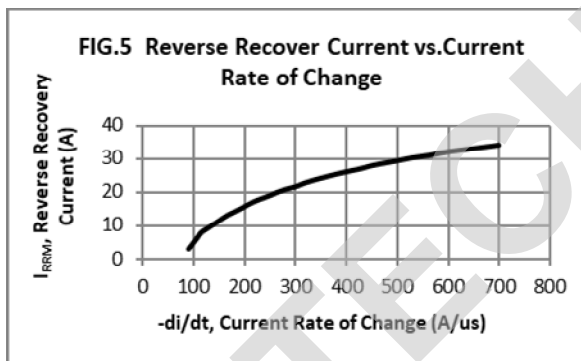
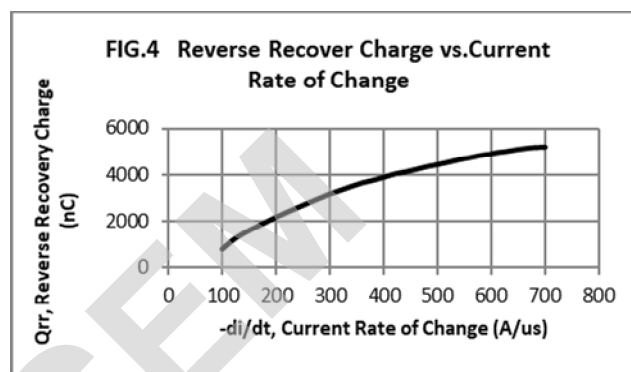
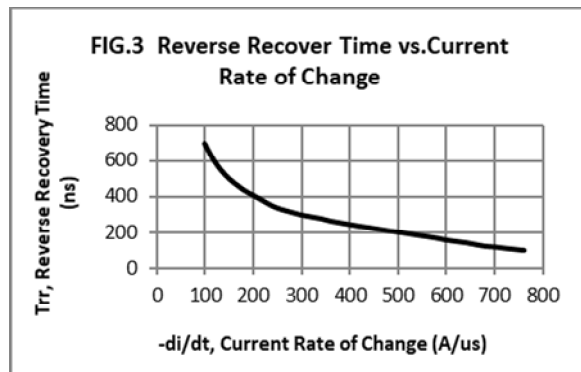
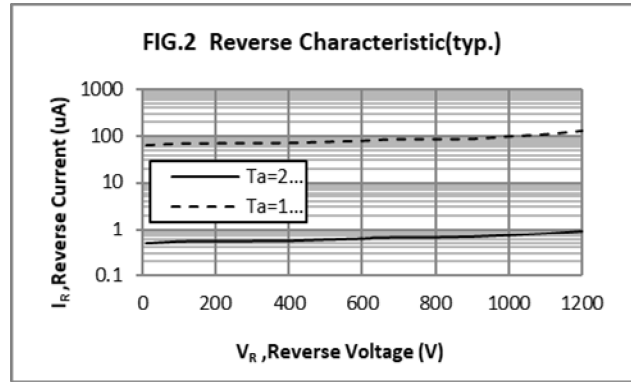
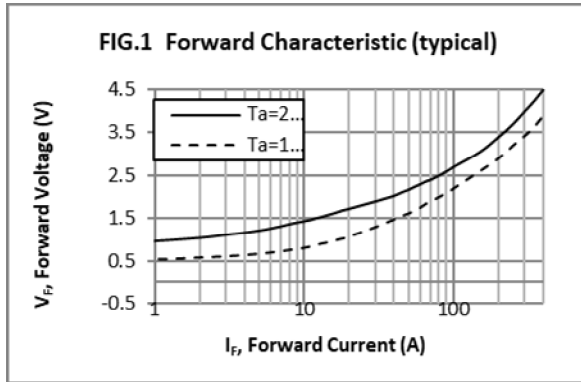
**Features:**

- n Ultrafast Recovery
- n 175°C operating junction temperature
- n High frequency operation
- n Low power loss, less RFI and EMI
- n Low I_R value
- n High surge capacity
- n Epitaxial chip construction

Typical Applications:

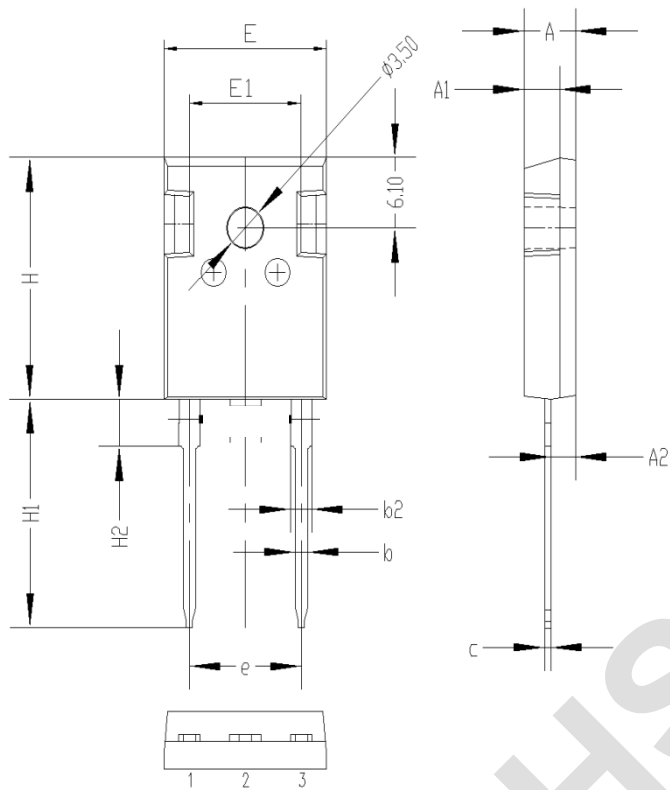
- n Less losses and EMI/RFI in high frequency power conditioning
- n Offers the need as snubber in most applications Power converter
- n suited for HF welding power converters

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T_j (°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Continuous forward current	180° half sine wave 50Hz	$T_C=110^\circ\text{C}$	150			75	A
I_{FRM}	Maximum repetitive forward current	Square wave, 20kHz					150	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ms}$		25	1200			V
I_{RRM}	Repetitive peak reverse current	at V_{RRM}		25			20	μA
				150			200	μA
I_{FSM}	Surge on-state current	10ms half sine wave		25			600	A
I^2t	I^2t value for fusing						1800	A^2s
V_{FM}	Peak on-state voltage	$I_{FM}=75\text{A}$		25		2.40	3.0	V
				125		1.90	2.80	V
t_{rr}	Reverse recovery time	$I_F=0.5\text{A}, I_R=1\text{A}, I_{RR}=0.25\text{A}$				60	90	ns
		$I_F=1\text{A}, V_R=30\text{V}, di/dt=200\text{A}/\mu\text{s}$				36	50	ns
Q_{rr}	Reverse recovery charge	$I_F=32.5\text{A}, di/dt=-200\text{A}/\mu\text{s}, V_R=400\text{V}, T_C=25^\circ\text{C}$				948		nC
t_{rr}	Reverse recovery time					198		ns
I_{RRM}	Maximum reverse recovery current					36		A
$R_{th(j-c)}$	Thermal resistance Junction to case					0.7		$^\circ\text{C}/\text{W}$
T_{stg}	Storage junction temperature range					-55	175	$^\circ\text{C}$
T_{vj}	Virtual junction temperature						175	$^\circ\text{C}$
Outline	TO-247-2L							



Outline:

TO-247-2L PACKAGE



Symbol	Unit mm		
	Min	Typ	Max
A	4.8	5.00	5.20
A1	3.3	3.5	3.7
A2	2.20	2.40	2.60
b	1.00	1.2	1.40
b2	1.8	2.0	2.2
c	0.50	0.60	0.70
e	10.7	10.9	11.1
E	15.2	15.7	16.2
H	20.8	21	21.2
H1	19.5	20.0	20.5
H2	3.9	4.1	4.3
G	5.9	6.1	6.3
ϕP	3.30	3.50	3.70