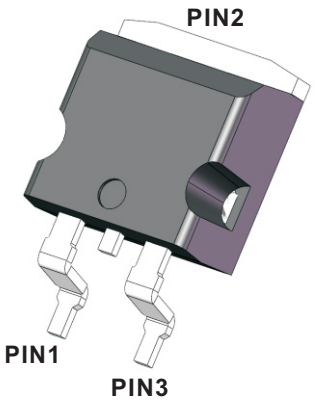
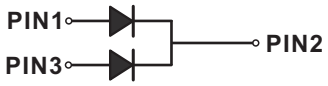
Fast Recovery EPI Diodes
Reverse Voltage - 200~600 Volts
Forward Current - 30 Amperes

TO-263-2L



RoHS COMPLIANT



Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7s, per JESD 22-B106

Mechanical Data

- Case: TO-263-2L
- Approx. Weight: 1.52g (0.053oz)
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Lead free finish, RoHS compliant
- Case Material: “Green” molding compound, UL flammability classification 94V-0,“Halogen-free”.

Maximum Ratings And Electrical Characteristics

Ratings At 25℃ Ambient Temperature Unless Otherwise Specified

Parameter	Symbols	MUR3020GD	MUR3040GD	MUR3060GD	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current — Per leg Per device	$I_{F(AV)}$	15 30			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	200			A
Instantaneous forward voltage at 15A Per leg	V_F	1.0	1.3	1.6	V
Maximum Reverse Recovery Time (1)	trr	35			ns
Maximum instantaneous reverse current at rated DC blocking voltage — Tj=25℃ Tj=125℃	I_R	10 500			uA
Maximum Thermal Resistance Junction To Case	$R_{\theta JC}$	4			°C/W
Operation Junction Temperature and Storage Temperature	T_j, T_{stg}	-55 ~ +150			°C

NOTE 1:I_F=0.5A,I_R=1A,Irr=0.25A

Fig.1 Typical Forward Current Derating Curve

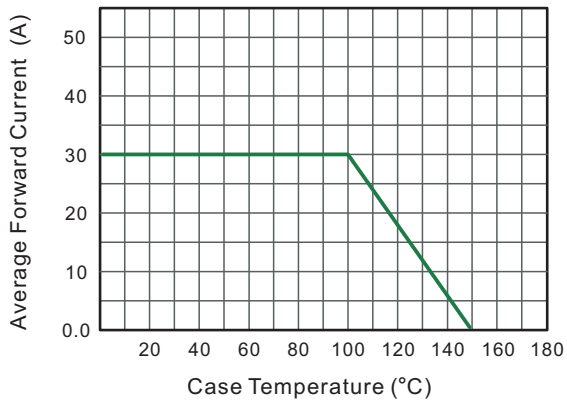


Fig.2 Typical Reverse Characteristics

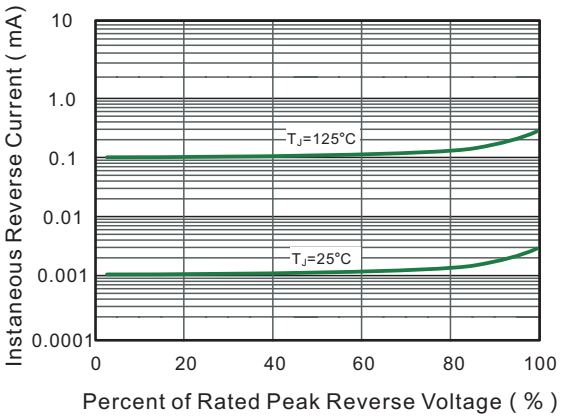


Fig.3 Typical Forward Characteristic

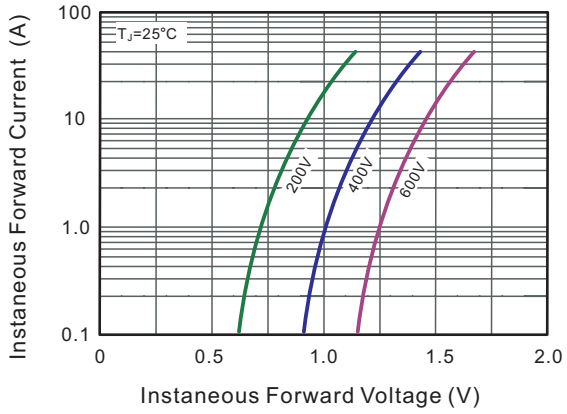
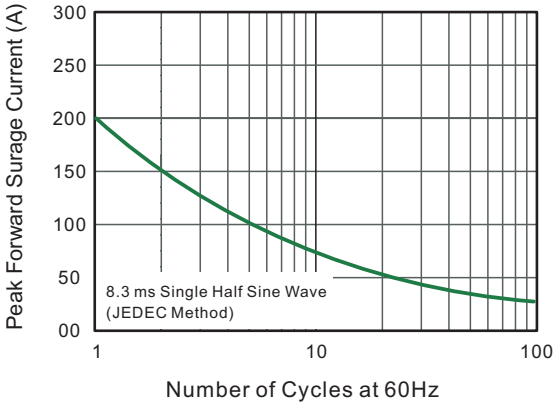
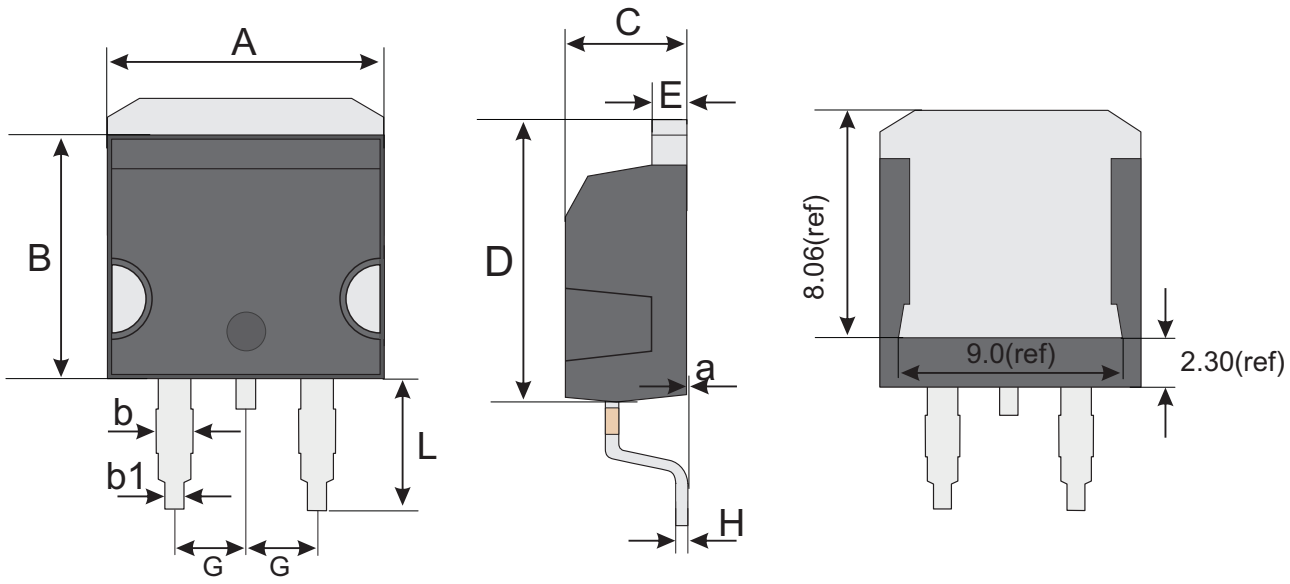


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



Package Outline
Plastic surface mounted package; 2 leads

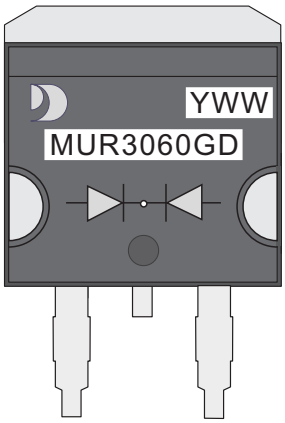
TO-263-2L



TO-263-2L mechanical data

UNIT		A	B	b	b1	C	D	E	G	H	L	a
mm	max	10.28	9.35	1.67	0.9	4.65	10.56	1.37	2.64	0.6	5.35	0.1 ref.
	typ	10.18	9.15	1.47	0.8	4.45	10.36	1.27	2.54	0.5	5.15	
	min	10.08	8.95	1.27	0.7	4.25	10.16	1.17	2.44	0.4	4.95	
mil	max	405	368	66	35	183	416	54	104	24	211	4.0 ref.
	typ	401	360	58	31	175	409	50	100	20	203	
	min	397	352	50	28	167	400	46	96	16	195	

Marking Diagram



YWW: Date Code
Y:Years(0~9)
WW:Week
MUR3060GD: Product name
(NOTE:The weekly code is based on the actual number of weeks in the calendar year.)

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