MUR1040BCT

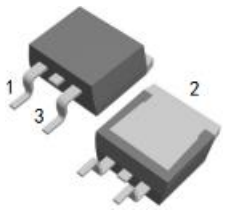
Ultrafast Recovery Diode

10A,400V

FEATURE

- Ultrafast,soft recovery
- High frequency operation
- Very low IR value
- Low forward voltage drop
- High junction temperature
- Epitaxial chip construction
- Low power loss, high efficiency
- RoHS 2.0 Compliant

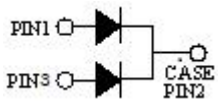
TO-263-2L



MECHANICAL DATA

- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Mounting position: any

Parameter	Values	Unit
$I_{F(AV)}$	10	A
V_{RRM}	400	V
T_J	150	℃
V_F(max)	1.3	V
T_{RR}(max)	35	ns



Ordering Code	Marking	Package	Packaging
MUR1040BCT	MUR1040BCT	TO-263-2L	Tape and reel

MUR1040BCT

Absolute Maximum Ratings(T_C=25℃,unless otherwise noted)

Parameter	Symbol	Values			Unit	Note/Test Conditions
		Min	Typ	Max		
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	-	-	400	V	-
Maximum RMS Voltage	V_{RMS}	-	-	280	V	-
Maximum DC blocking Voltage	V_{DC}	-	-	400	V	-
Maximum Average Forward Rectified Current	$I_{F(AV)}$	-	-	5 10	A	Per Leg Total device,T_C=100°C
Non-Repetitive Forward Surge Current Per Leg	I_{FSM}	-	-	125	A	T_C=25℃, t_p=8.3ms,Half Sine Wave
Typical Junction Capacitance	C_J	-	23	-	pF	Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55	-	150	℃	-

Thermal Characteristics

Parameter	Symbol	Values			Unit	Note/Test Conditions
		Min	Typ	Max		
Thermal resistance , Channel to Case	$R_{th(ch-c)}$	-	-	2.5	℃/W	-

Electrical Characteristics-(per leg)(T_C=25℃,unless otherwise noted)

Parameter	Symbol	Values			Unit	Note/Test Conditions
		Min	Typ	Max		
Reverse Breakdown Voltage	V_{RRM}	400	-	-	V	I_R=100μA
Forward Voltage Drop	V_F	-	1.19	1.3	V	I_F=5A,T_J=25℃
		-	1.09	1.3		I_F=5A,T_J=125℃
Reverse Leakage Current	I_R	-	0.03	10	μA	V_R=400V,T_J=25℃
		-	0.2	200		V_R=400V,T_J=125℃
Reverse Recovery Time	t_{rr}	-	-	35	ns	I_F=0.5A,I_R=1A,I_{RR}=0.25A,T_J=25℃

MUR1040BCT

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

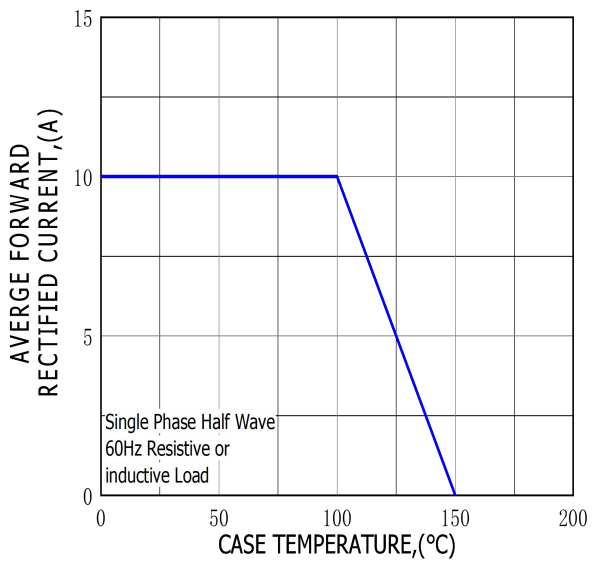


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

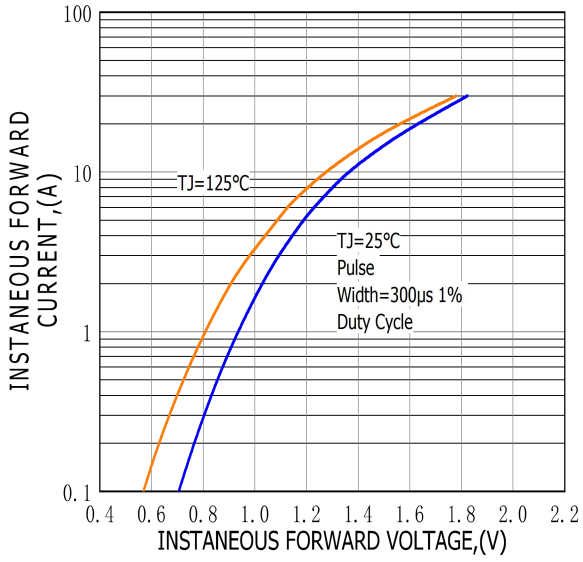


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

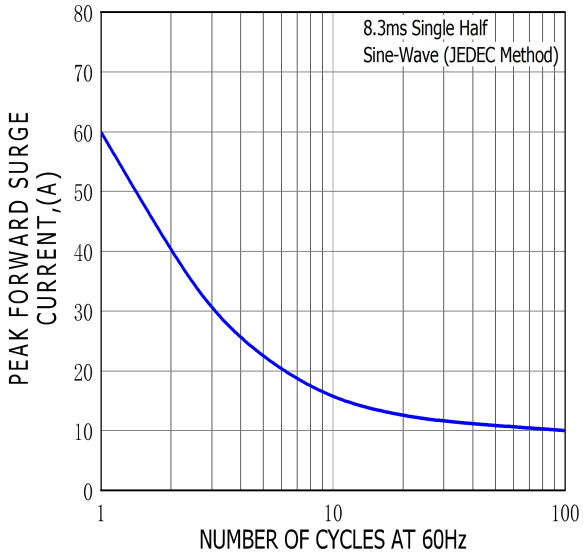
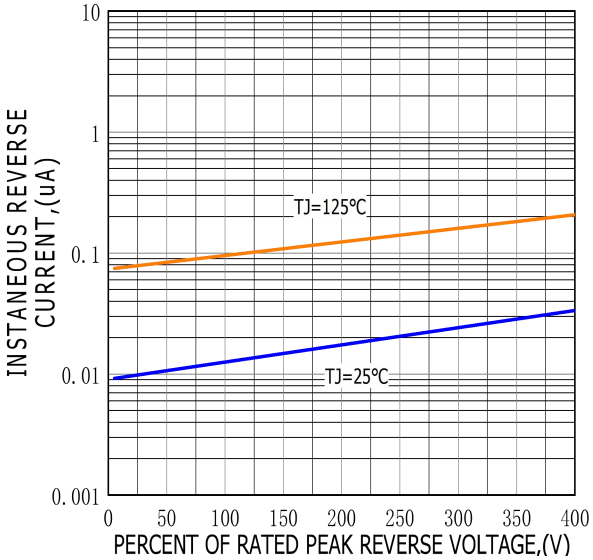


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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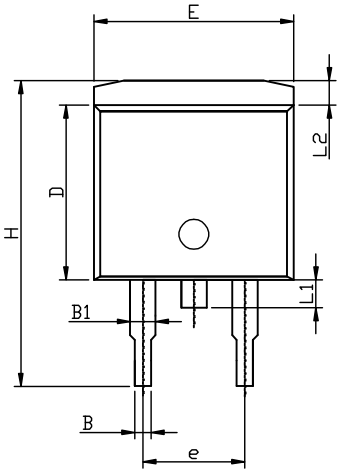
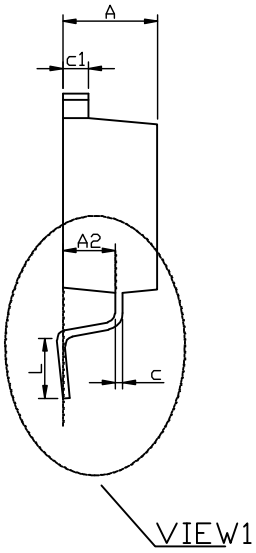
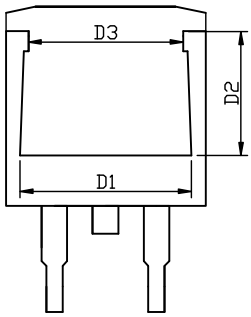
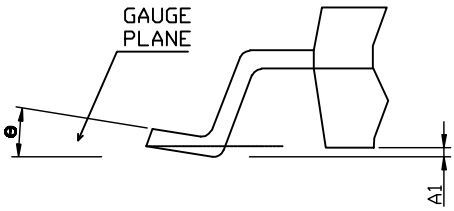
CHONGQING PINGWEI ENTERPRISE CO.,LTD

TO-263-2L PACKAGE OUTLINE

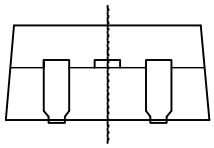




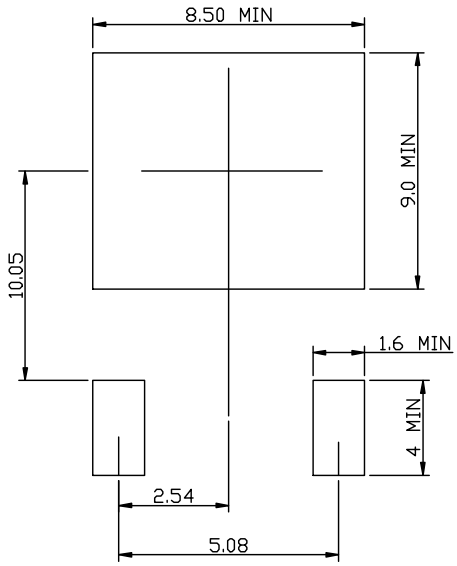




VIEW1



RECOMMENDED LAND PATTERN



	MIN	NOM	MAX
A	4.50	4.70	4.90
A1	0.05	0.15	0.30
A2	2.45	2.60	2.70
B	0.72	0.82	0.92
B1	1.12	1.27	1.42
c	0.28	0.38	0.48
c1	1.17	1.27	1.37
D	8.46	8.66	8.86
D1	7.90	8.10	8.40
D2	5.50	5.70	5.90
D3	7.10	7.30	7.50
E	9.85	10.15	10.45
e		5.08BCS	
H	14.75	15.15	15.55
L	2.30	2.55	2.80
L1	1.20	1.40	1.60
L2	1.01	1.23	1.50
θ	0°	7°	8°

UNIT: mm

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