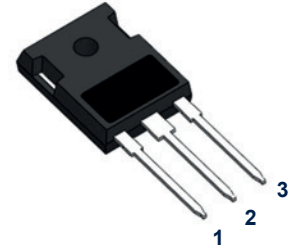
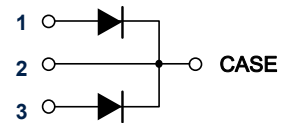


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Polyimide passivation
- Fast switching for high efficiency
- Low forward voltage drop
- Low reverse leakage current
- High surge capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.25" (6.35mm) from case
- Component in accordance to RoHS 2011/65/EU



TO-247AB



Schematic Diagram

Mechanical Data

- Case: TO-247AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: As marked
- Mounting Position: Any

Maximum Ratings (Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	40.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method at Rated T_L)	I_{FSM}	300	A
Typical Thermal Resistance ¹	$R_{\theta JC}$	1.0	°C/W
Operating Junction Temperature Range	T_J	-55 to +175	°C
Storage Temperature Range	T_{stg}	-55 to +175	°C

Electrical Characteristics ($T_J=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V_{BR}	$I_R=200\mu\text{A}$	600	-	-	V
Blocking Voltage	V_R					
Instantaneous Forward Voltage ²	V_F	$I_F=20\text{A}, T_J=25^\circ\text{C}$	-	1.45	1.7	V
		$I_F=20\text{A}, T_J=125^\circ\text{C}$	-	1.25	-	
Reverse Current ³	I_R	$V_R=200\text{V}, T_J=25^\circ\text{C}$	-	-	5	μA
		$V_R=200\text{V}, T_J=125^\circ\text{C}$	-	-	50	
Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$	-	30	40	ns

Notes:

1. Thermal resistance from junction to case.
2. Pulse test: 300us pulse width, 1% duty cycle.
3. Pulse test: pulse width \leq 40ms.

Ratings and Characteristic Curves

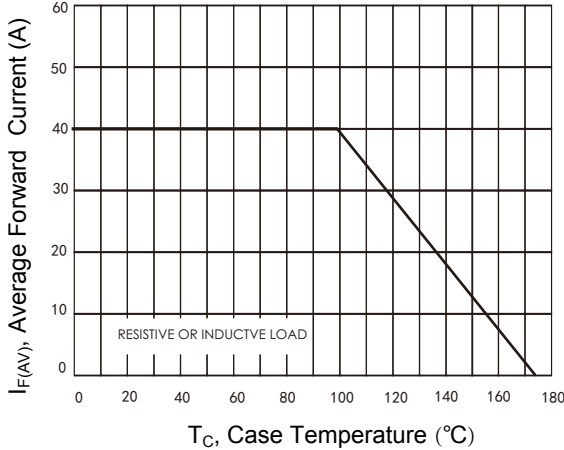


Figure 1. Forward Current Derating Curve

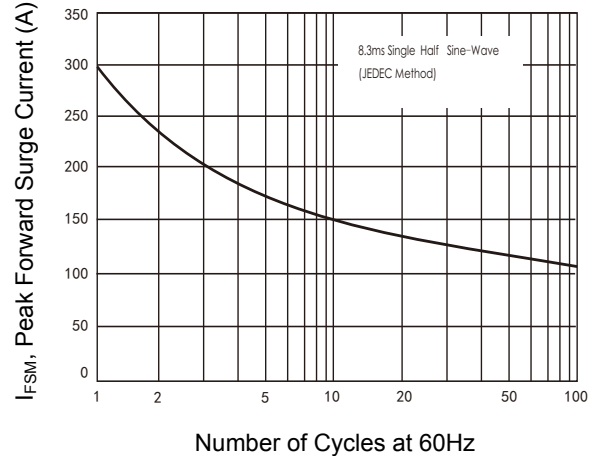


Figure 2. Max. Non-Repetitive Peak Forward Surge Current

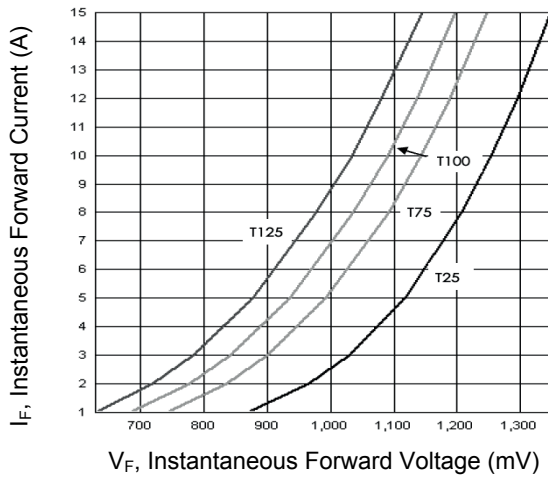


Figure 3. Typical Instantaneous Forward Characteristics

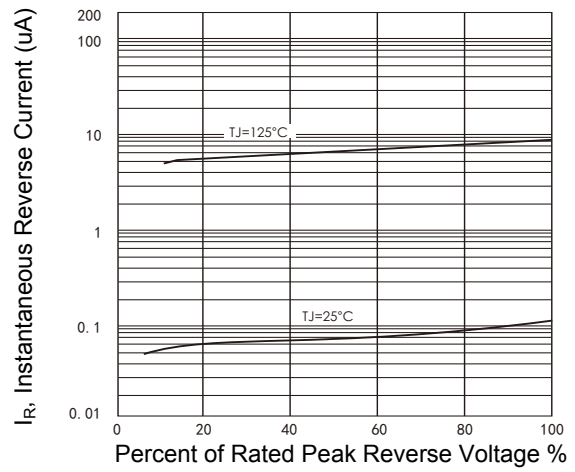


Figure 4. Typical Reverse Characteristics

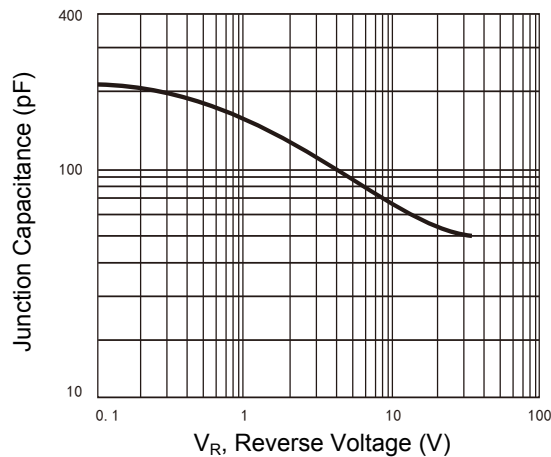
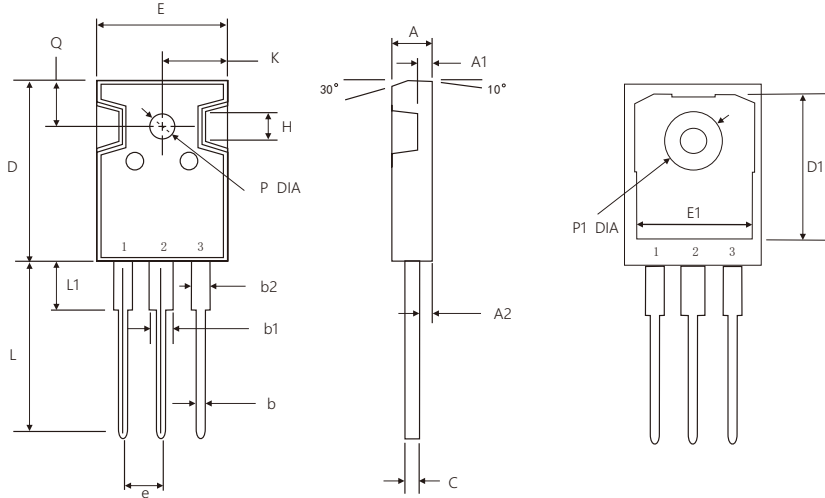


Figure 5. Typical Junction Capacitance

Package Outline Dimensions (TO-247AB)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.70	5.30	0.185	0.209
A1	1.80	2.20	0.071	0.087
A2	2.24	2.58	0.088	0.102
b	1.00	1.40	0.039	0.055
b1	2.60	3.60	0.102	0.142
b2	1.60	2.60	0.063	0.102
C	0.40	0.80	0.016	0.031
D	20.00	22.00	0.787	0.866
D1	16.25	16.85	0.640	0.663
E	15.40	16.40	0.606	0.646
E1	13.10	13.50	0.516	0.531
L	19.60	20.40	0.772	0.803
e	5.20	5.70	0.205	0.224
L1	3.80	4.50	0.150	0.177
P	3.00	3.70	0.118	0.146
P1	-	7.30	-	0.287
Q	5.40	6.40	0.213	0.252
K	7.40	8.20	0.291	0.323
H	4.60 REF		0.181 REF	

Order Information

Device	Package	Marking	Carrier	Quantity
GSMUR4060PT	TO-247AB	MUR4060PT	Tube	30pcs / Tube

For more information, please contact us at: inquiry@goodarksemi.com