

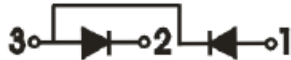


ISOLATED DIODE MODULE

BDC0160__-A31

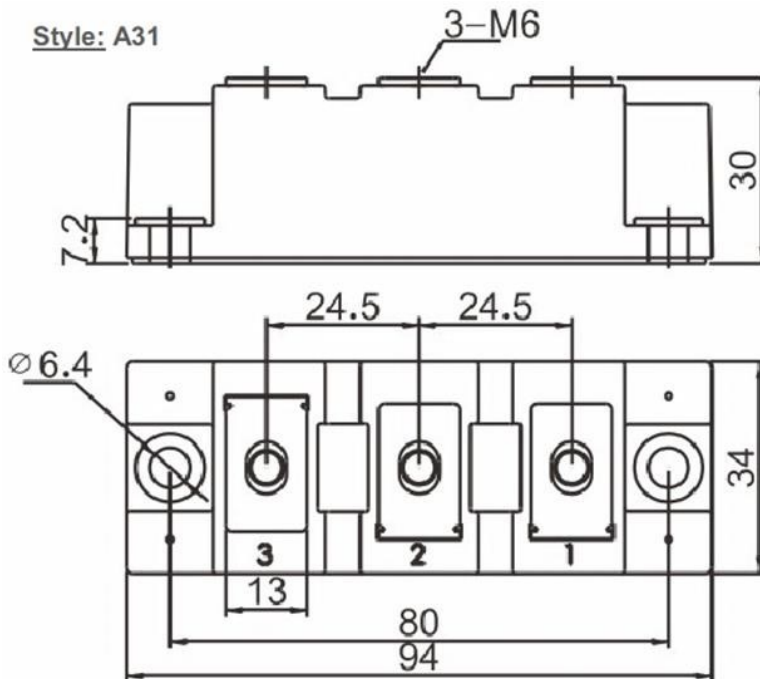


CIRCUIT



PACKAGE OUTLINE

Style: A31



KEY PARAMETERS:

$V_{\text{DRM}} / V_{\text{RRM}}$	800V—2000V
I_{TAVM}	160A
I_{TRMS}	251A
V_{ISOL}	3000V

FEATURES:

- Solder Bond Technology
- Glass Passivated Rectifier
- Industrial Standard Package
- Isolated Base Plate
- UL recognized applied for file no. E304417

APPLICATIONS:

- Non-Controllable AC/DC Converters
- Line Rectifiers for Inverter motor controllers
- Field Supply for DC Motors



ISOLATED DIODE MODULE

BDC0160__-A02

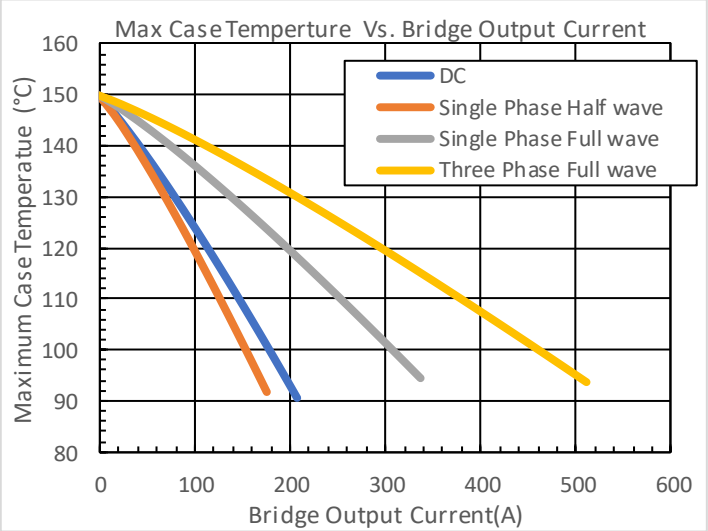
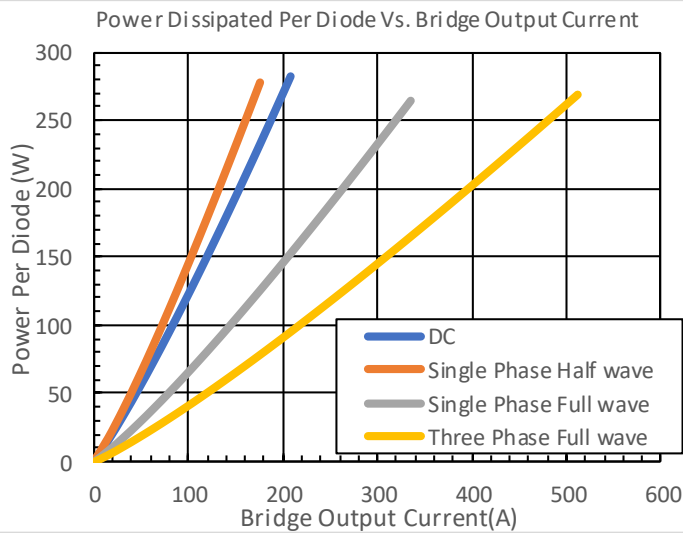
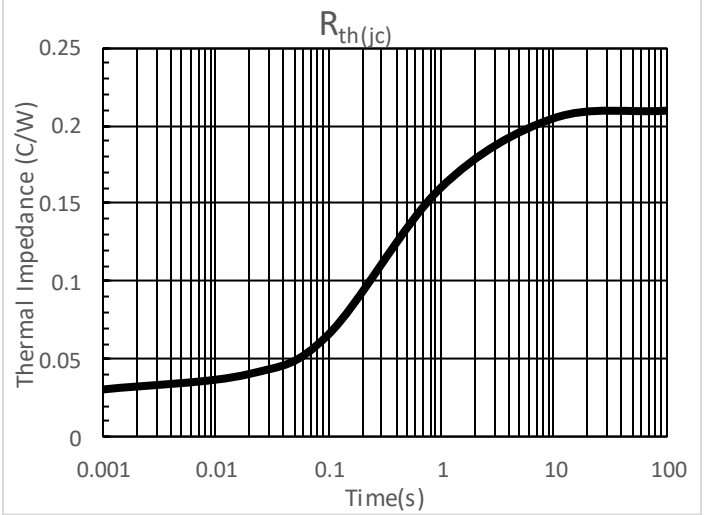
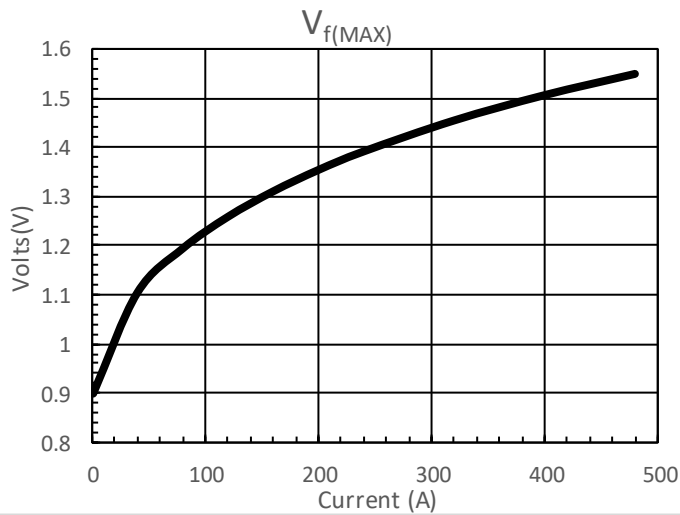
Ratings

Symbol	Characteristics	Conditions	Values	Units
V_{RRM}	Repetitive Peak Reverse Blocking Voltage	$T_j=150^{\circ}\text{C}$	800 - 2000	V
V_{RSM}	Non Repetitive Peak Reverse Blocking Voltage	$T_j=150^{\circ}\text{C}$ $t<5\text{msec}$	$V_{RRM} + 100$	V
I_{RRM}	Repetitive Peak Reverse Leakage Current	at V_{RRM} , $T_j=150^{\circ}\text{C}$ (MAX)	9	mA
V_{FM}	Peak On State Voltage	$I_F=300\text{A}$ $T_j=25^{\circ}\text{C}$	1.55(MAX) 1.30(TYP)	V
I_{FAV}	Average Forward Current	180° Conduction $T_c=98^{\circ}\text{C}$	160	A
I_{FSM}	RMS Forward Current	$t=10\text{mS}$ $T_j=45^{\circ}\text{C}$	6000	A
I^2t	Fusing Current for Once Cycle	$t=10\text{mS}$ $T_j=45^{\circ}\text{C}$	180000	A^2s
V_{ISOL}	Isolation Voltage	All terminals to Baseplate, 60HZ, 1 Min	3000	V_{RMS}
T_j	Junction Temperature		-40 to 150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature		-40 to 125	$^{\circ}\text{C}$
Mt	Maximum Mounting Torque to Terminals	M6	6	Nm
Ms	Maximum Mounting Torque to Heatsink	M6	6	Nm
Weight	Module (Approximate)		220	g
$R_{th(j-c)}$	Per diode	Both Conducting	0.21	$^{\circ}\text{C/W}$
$R_{th(c-s)}$	Per Module	Both Conducting	0.05	$^{\circ}\text{C/W}$



ISOLATED DIODE MODULE

BDC0160__-A02



Ordering Info:

BDC0160080-A31	800V
BDC0160100-A02	1000V
BDC0160120-A02	1200V
BDC0160140-A02	1400V
BDC0160160-A02	1600V
BDC0160180-A02	1800V
BDC0160200-A02	2000V