

查询"SKM75GB063D_06"供应商



SEMITRANS® 2

Superfast NPT-IGBT Modules

SKM 75GB063D

SKM 75GAR063D

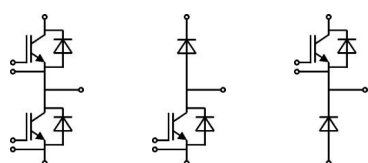
SKM 75GAL063D

Features

- N channel, homogeneous Si-structure (NPT-Non punch-through IGBT)
- Low tail current with low temperature dependence
- High short circuit capability, self limiting if term. G is clamped to E
- Pos. temp.-coeff. of V_{CEsat}
- Very low C_{ies} , C_{oes} , C_{res}
- Latch-up free
- Fast & soft inverse CAL diodes
- Isolated copper baseplate using DBC Direct Copper Bonding Technology without hard mould
- Large clearance (10 mm) and creepage distances (20 mm)

Typical Applications

- Switching (not for linear use)
- Switched mode power supplies
- UPS
- Three phase inverters for servo / AC motor speed control
- Pulse frequencies also > 10kHz



GB

GAL

GAR

Characteristics

Symbol	Conditions	min.	typ.	max.	Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 75 \text{ A}$; $V_{GE} = 0 \text{ V}$ $T_j = 25^\circ\text{C}_{chiplev.}$		1,55	1,9	V
	$T_j = 125^\circ\text{C}_{chiplev.}$		1,55		V
V_{F0}	$T_j = 125^\circ\text{C}$			0,9	V
r_F	$T_j = 125^\circ\text{C}$		10	13,3	mΩ
I_{RRM}	$I_{Fnom} = 75 \text{ A}$ $T_j = 125^\circ\text{C}$		30		A
Q_{rr}	$di/dt = 800 \text{ A}/\mu\text{s}$		3,7		μC
E_{rr}	$V_{GE} = -15 \text{ V}$; $V_{CC} = 300 \text{ V}$				mJ
$R_{th(j-c)D}$	per diode			0,72	K/W
Freewheeling Diode					
$V_F = V_{EC}$	$I_{Fnom} = 100 \text{ A}$; $V_{GE} = 0 \text{ V}$ $T_j = 25^\circ\text{C}_{chiplev.}$		1,55	1,9	V
	$T_j = 125^\circ\text{C}_{chiplev.}$		1,55		V
V_{F0}	$T_j = 125^\circ\text{C}$			0,9	V
r_F	$T_j = 125^\circ\text{C}$		8	10	V
I_{RRM}	$I_{Fnom} = 100 \text{ A}$ $T_j = 125^\circ\text{C}$		44		A
Q_{rr}	$di/dt = 0 \text{ A}/\mu\text{s}$		6		μC
E_{rr}	$V_{GE} = -15 \text{ V}$; $V_{CC} = 300 \text{ V}$				mJ
$R_{th(j-c)FD}$	per diode			0,6	K/W
Module					
L_{CE}				30	nH
$R_{CC'+EE'}$	res., terminal-chip $T_{case} = 25^\circ\text{C}$		0,75		mΩ
	$T_{case} = 125^\circ\text{C}$		1		mΩ
$R_{th(c-s)}$	per module			0,05	K/W
M_s	to heat sink M6	3		5	Nm
M_t	to terminals M5	2,5		5	Nm
w				160	g

This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

SKM 75GB063D



Superfast NPT-IGBT Modules

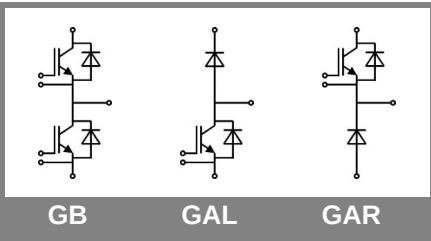
SKM 75GB063D
SKM 75GAR063D
SKM 75GAL063D

Features

- N channel, homogeneous Si-structure (NPT-Non punch-through IGBT)
- Low tail current with low temperature dependence
- High short circuit capability, self limiting if term. G is clamped to E
- Pos. temp.-coeff. of V_{CEsat}
- Very low C_{ies} , C_{oes} , C_{res}
- Latch-up free
- Fast & soft inverse CAL diodes
- Isolated copper baseplate using DBC Direct Copper Bonding Technology without hard mould
- Large clearance (10 mm) and creepage distances (20 mm)

Typical Applications

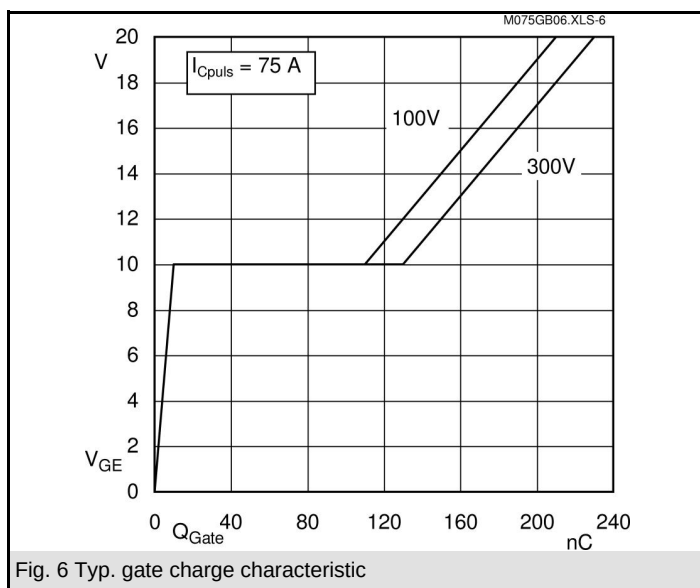
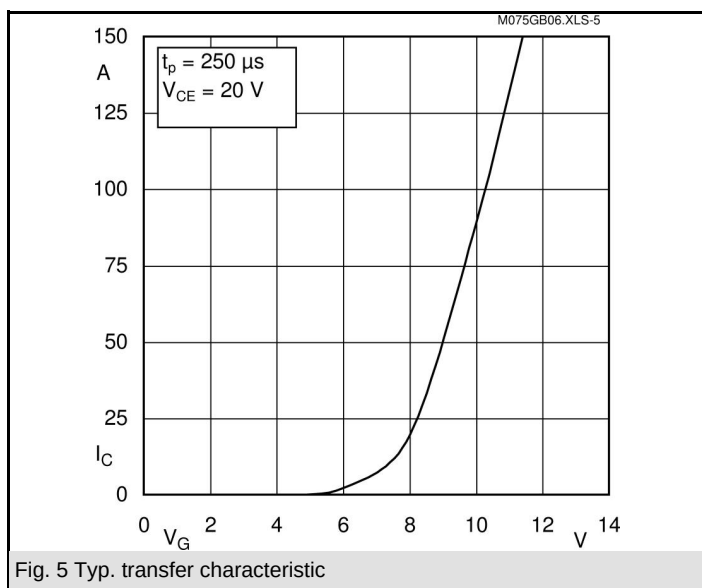
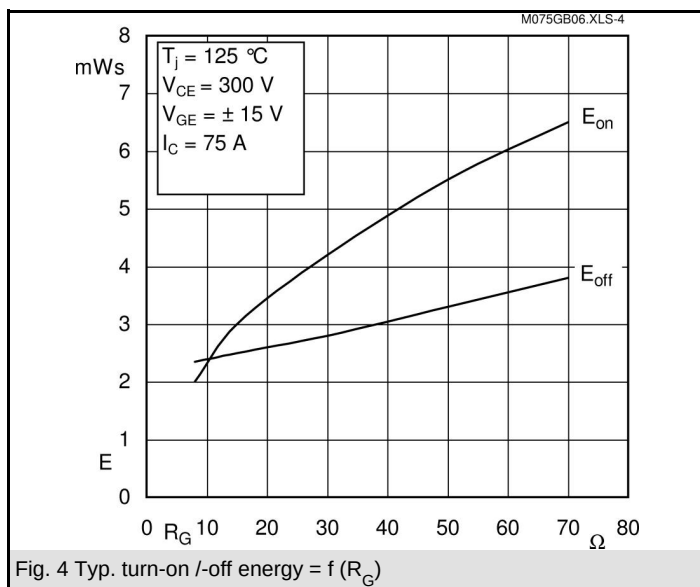
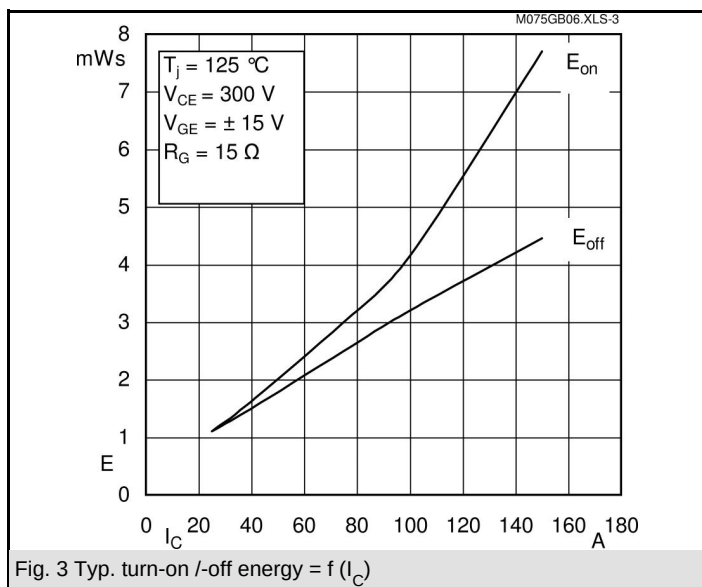
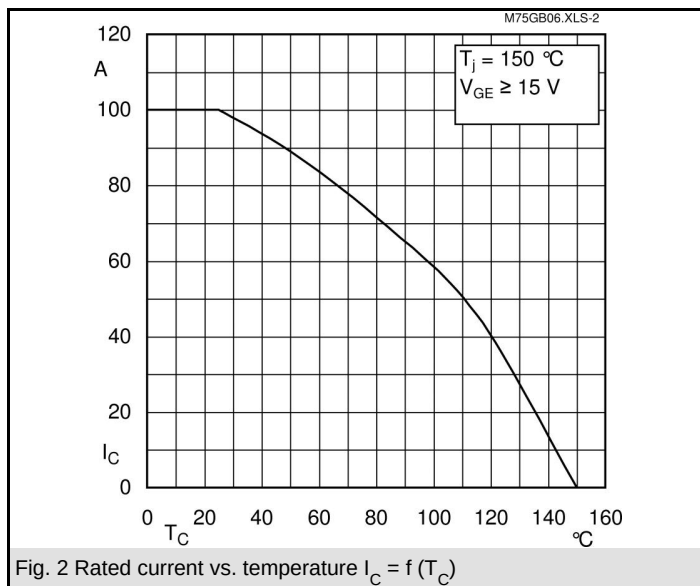
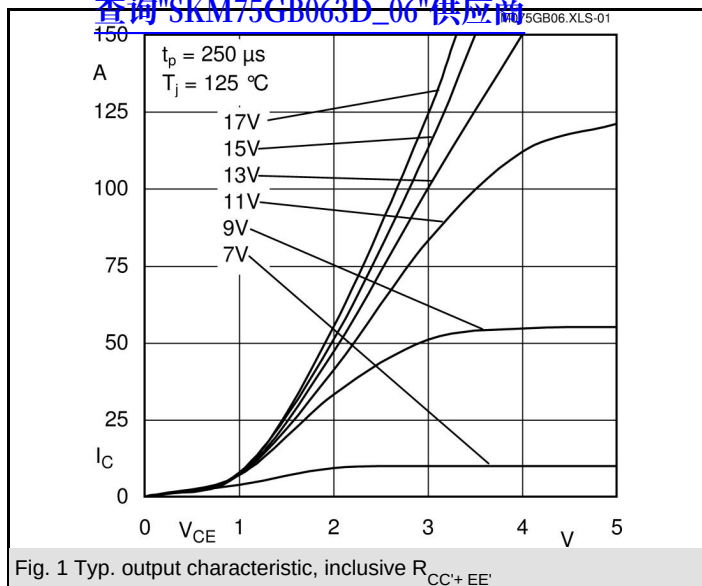
- Switching (not for linear use)
- Switched mode power supplies
- UPS
- Three phase inverters for servo / AC motor speed control
- Pulse frequencies also > 10kHz



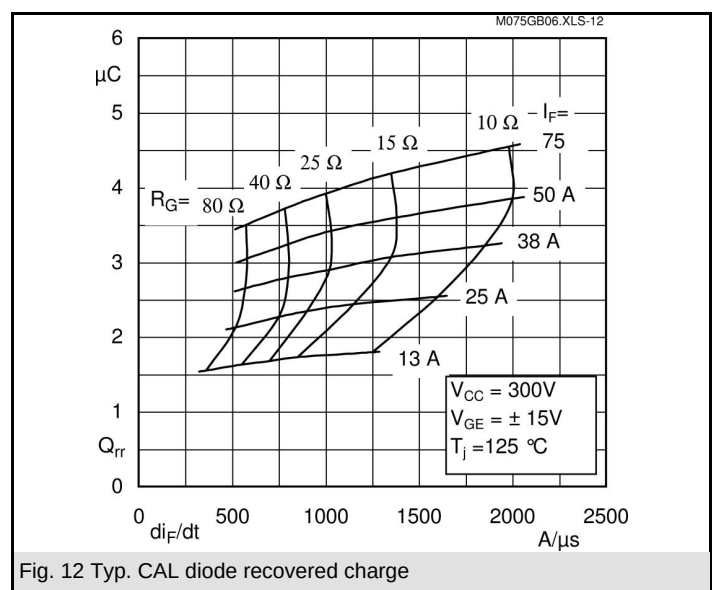
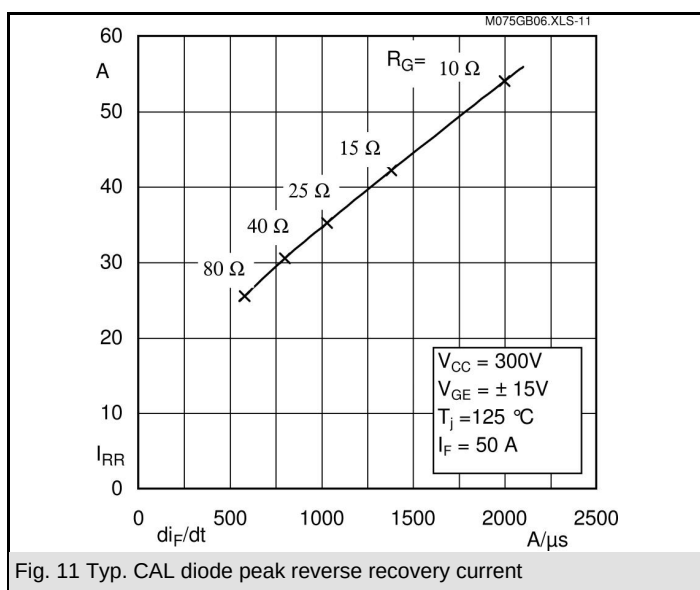
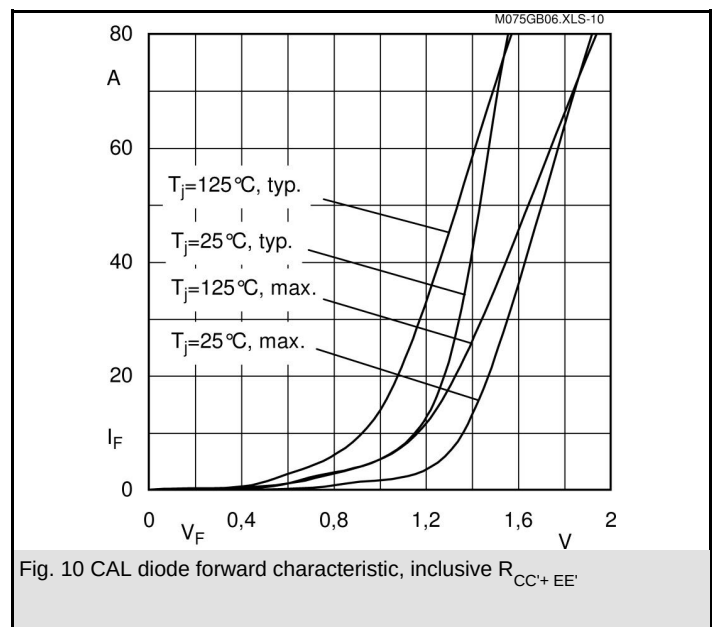
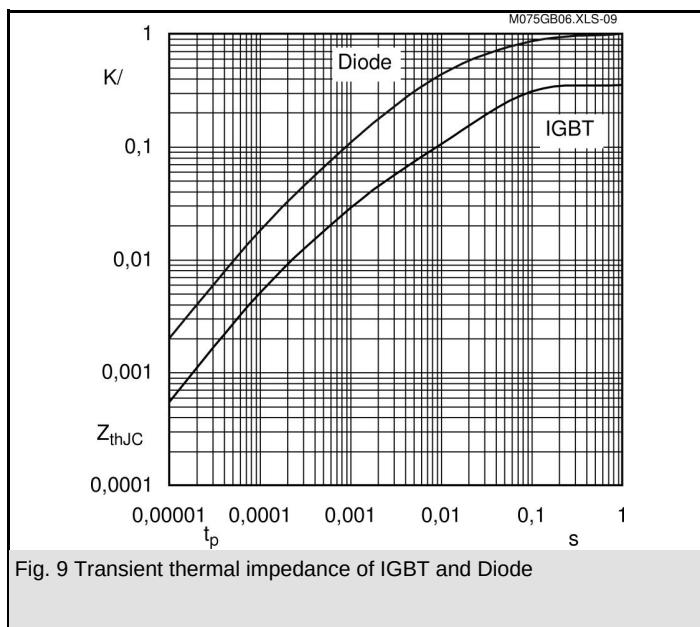
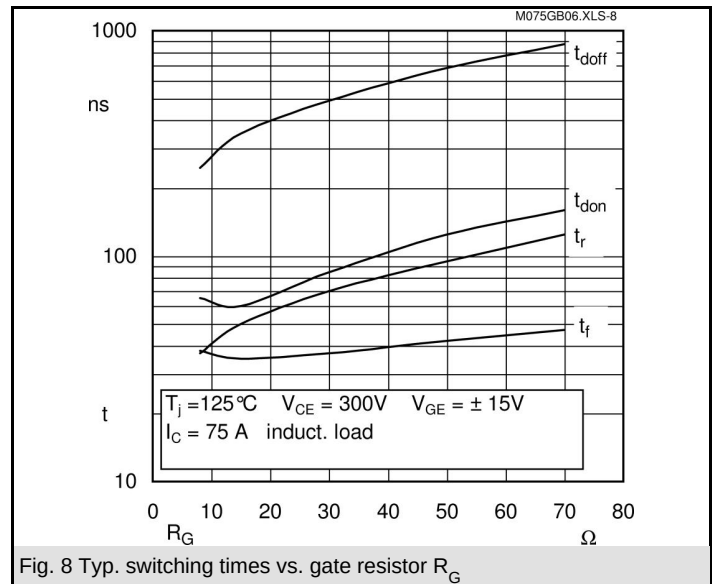
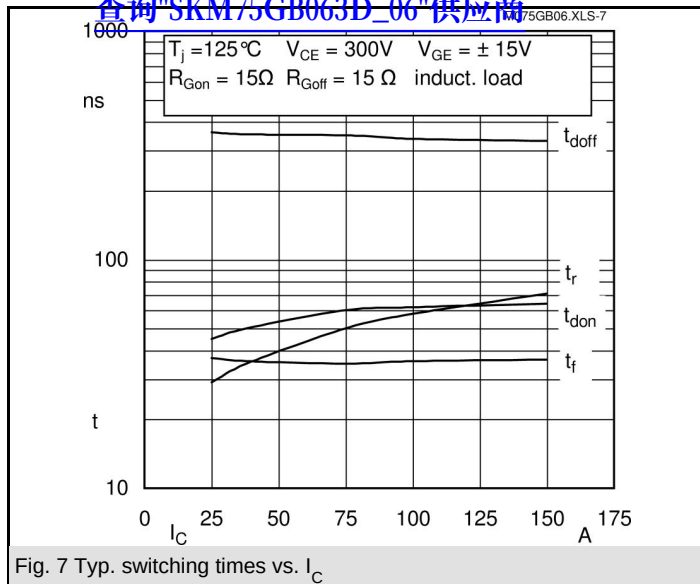
[查询"SKM75GB063D_06"供应商](#)

Symbol	Conditions	Values	Units
$Z_{th(j-c)I}$			
R_i	$i = 1$	250	mk/W
R_i	$i = 2$	70	mk/W
R_i	$i = 3$	25	mk/W
R_i	$i = 4$	5	mk/W
τ_{ui}	$i = 1$	0,0874	s
τ_{ui}	$i = 2$	0,0078	s
τ_{ui}	$i = 3$	0,0017	s
τ_{ui}	$i = 4$	0,0001	s
$Z_{th(j-c)D}$			
R_i	$i = 1$	550	mk/W
R_i	$i = 2$	340	mk/W
R_i	$i = 3$	92	mk/W
R_i	$i = 4$	18	mk/W
τ_{ui}	$i = 1$	0,0761	s
τ_{ui}	$i = 2$	0,0045	s
τ_{ui}	$i = 3$	0,011	s
τ_{ui}	$i = 4$	0,0002	s

查询"SKM75GB063D_06"供应商



查询"SKM75GB063D_06"供应商

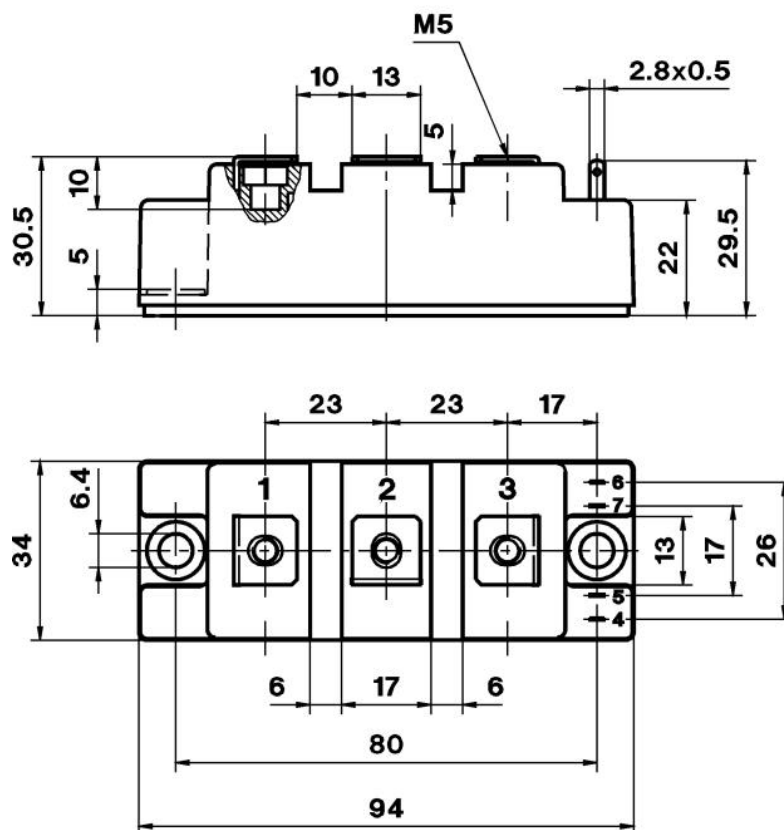


SKM 75GB063D

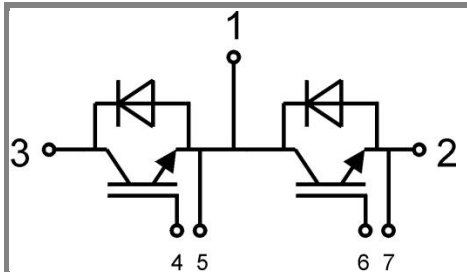
UL recognized [查询"SKM75GB063D_06"供应商](#)

File no. E 63 532

CASED61

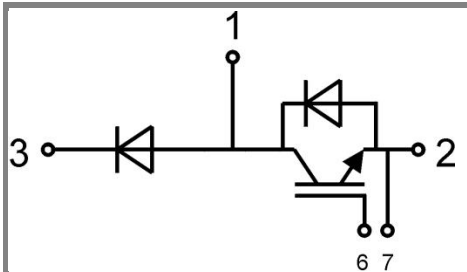


Case D 61



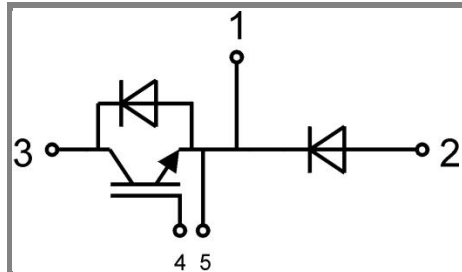
GB

Case D 61



GAL

Case D 62 (→ D 61)



GAR

Case D 63 (→ D 61)