

SKM 75GB123D

查询"SKM75GB123D_06"供应商



SEMITRANS® 2

IGBT Modules

SKM 75GB123D

SKM 75GAL123D

SKM 75GAR123D

Features

- MOS input (voltage controlled)
- Low inductance case
- Very low tail current with low temperature dependence
- High short circuit capability, self limiting to $6 \times I_{cnom}$
- Latch-up free
- Fast & soft inverse CAL diodes
- Isolated copper baseplate using DCB Direct Copper Bonding Technology
- Large clearance (10 mm) and creepage distance (20 mm)

Typical Applications

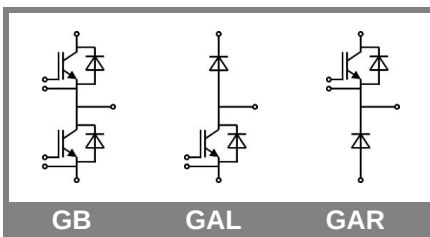
- AC inverter drives
- UPS

Characteristics

Symbol	Conditions	min.	typ.	max.	Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 50 \text{ A}; V_{GE} = 0 \text{ V}$	$T_j = 25^\circ\text{C}_{chiplev.}$	2	2,5	V
		$T_j = 125^\circ\text{C}_{chiplev.}$	1,8		V
V_{F0}		$T_j = 25^\circ\text{C}$	1,1	1,2	V
		$T_j = 125^\circ\text{C}$			V
r_F		$T_j = 25^\circ\text{C}$	18	26	mΩ
		$T_j = 125^\circ\text{C}$			mΩ
I_{RRM}	$I_{Fnom} = 50 \text{ A}$	$T_j = 125^\circ\text{C}$	35		A
Q_{rr}	$di/dt = 800 \text{ A}/\mu\text{s}$				μC
E_{rr}	$V_{GE} = 0 \text{ V}; V_{CC} = 600 \text{ V}$				mJ
$R_{th(j-c)D}$	per diode			0,6	K/W
Freewheeling Diode					
$V_F = V_{EC}$	$I_{Fnom} = 50 \text{ A}; V_{GE} = 0 \text{ V}$	$T_j = 25^\circ\text{C}_{chiplev.}$	1,85	2,2	V
		$T_j = 125^\circ\text{C}_{chiplev.}$	1,6		V
V_{F0}		$T_j = 25^\circ\text{C}$	1,1	1,2	V
		$T_j = 125^\circ\text{C}$			V
r_F		$T_j = 25^\circ\text{C}$	15	20	V
		$T_j = 125^\circ\text{C}$			V
I_{RRM}	$I_{Fnom} = 50 \text{ A}$	$T_j = 125^\circ\text{C}$	40		A
Q_{rr}					μC
E_{rr}	$V_{GE} = 0 \text{ V}; V_{CC} = 600 \text{ V}$				mJ
$R_{th(j-c)FD}$	per diode			0,5	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 75GB123D



IGBT Modules

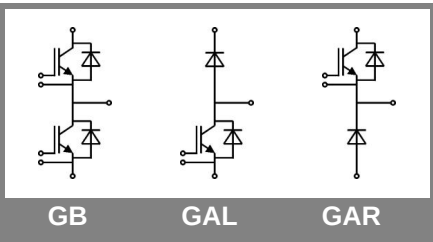
SKM 75GB123D
SKM 75GAL123D
SKM 75GAR123D

Features

- MOS input (voltage controlled)
- Low inductance case
- Very low tail current with low temperature dependence
- High short circuit capability, self limiting to $6 \times I_{cnom}$
- Latch-up free
- Fast & soft inverse CAL diodes
- Isolated copper baseplate using DCB Direct Copper Bonding Technology
- Large clearance (10 mm) and creepage distance (20 mm)

Typical Applications

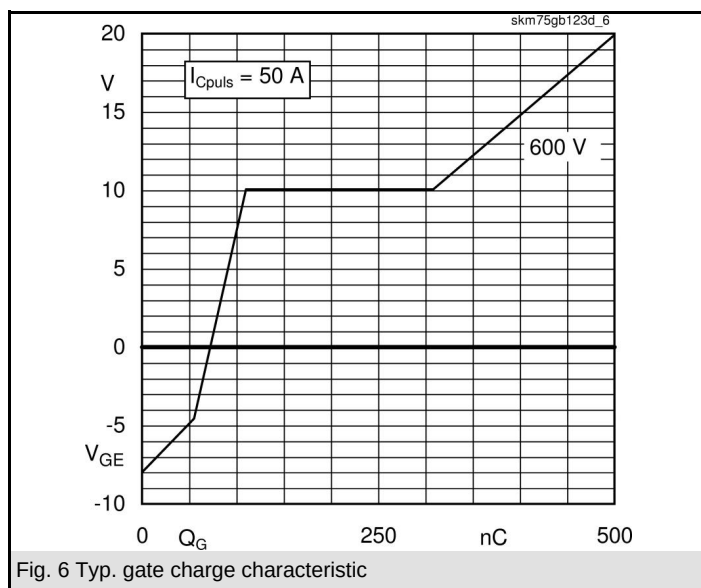
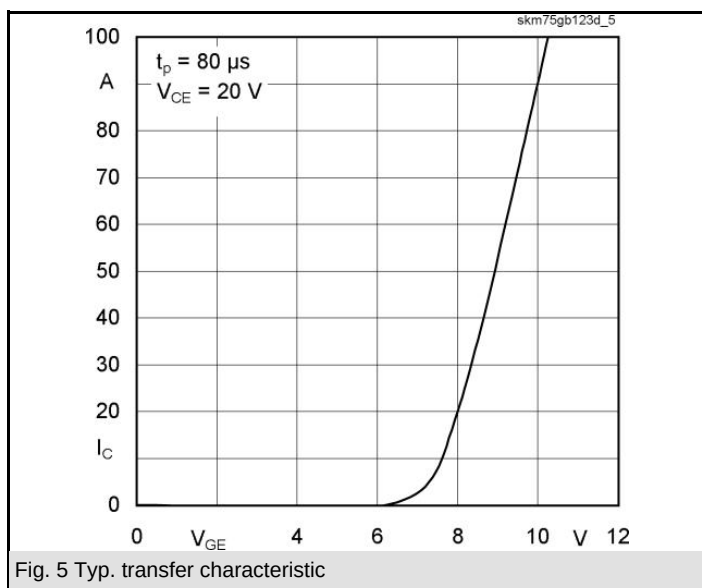
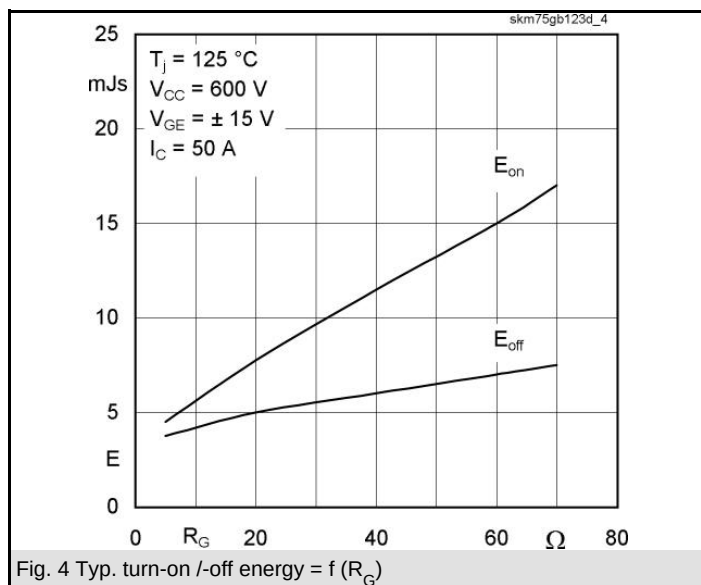
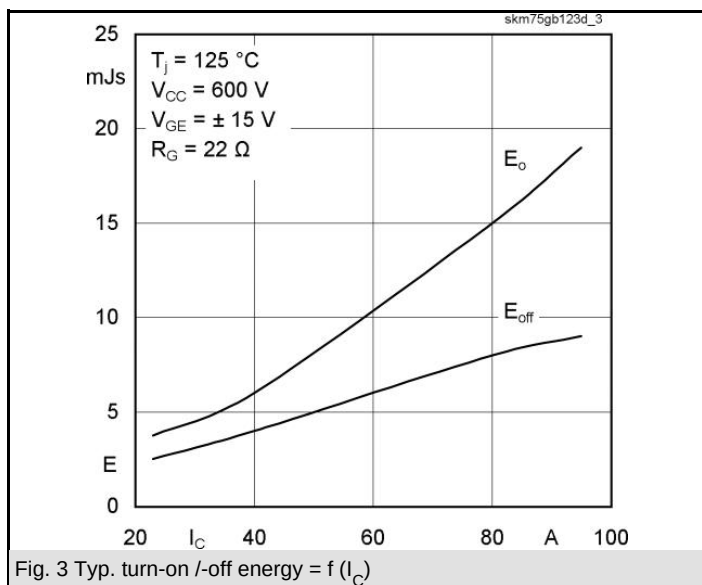
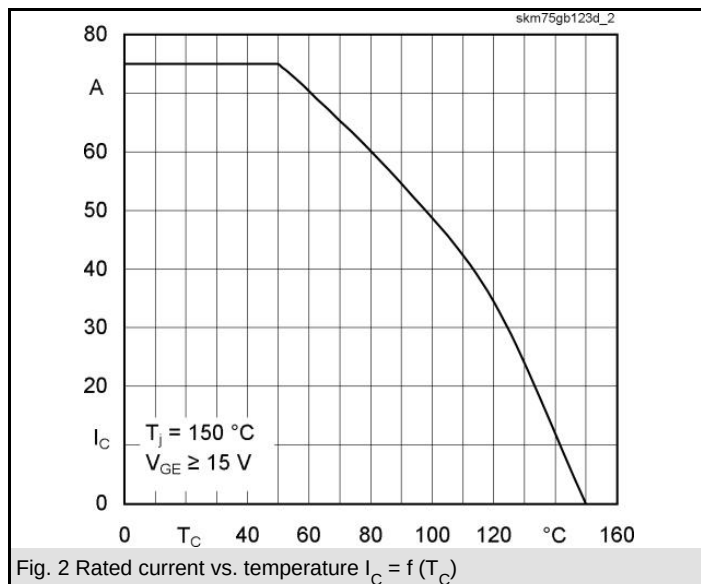
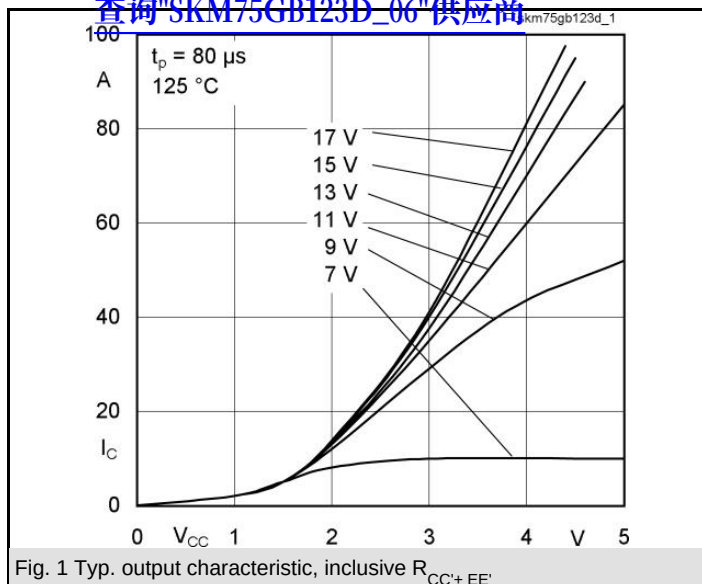
- AC inverter drives
- UPS



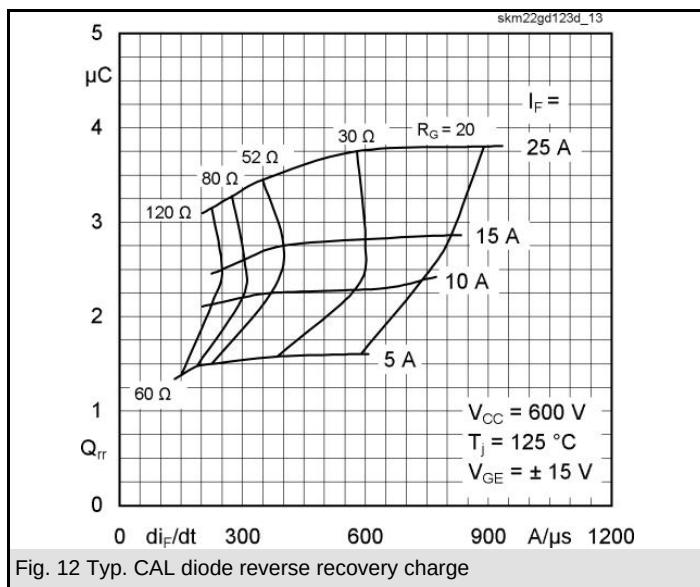
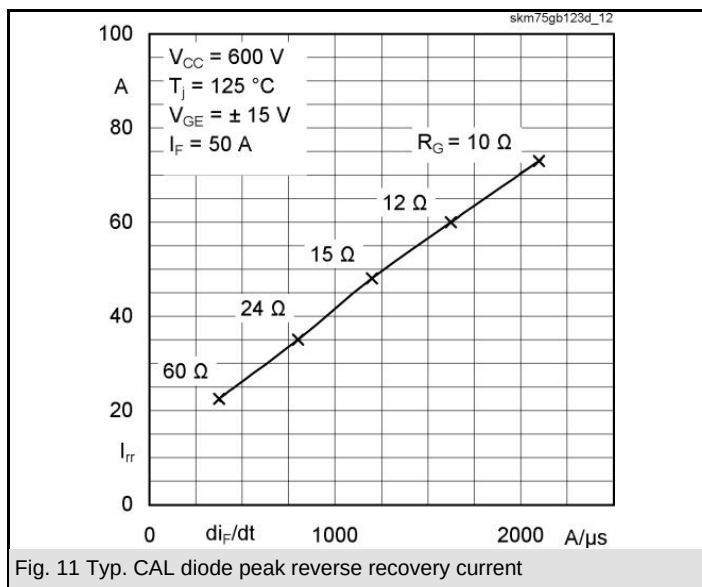
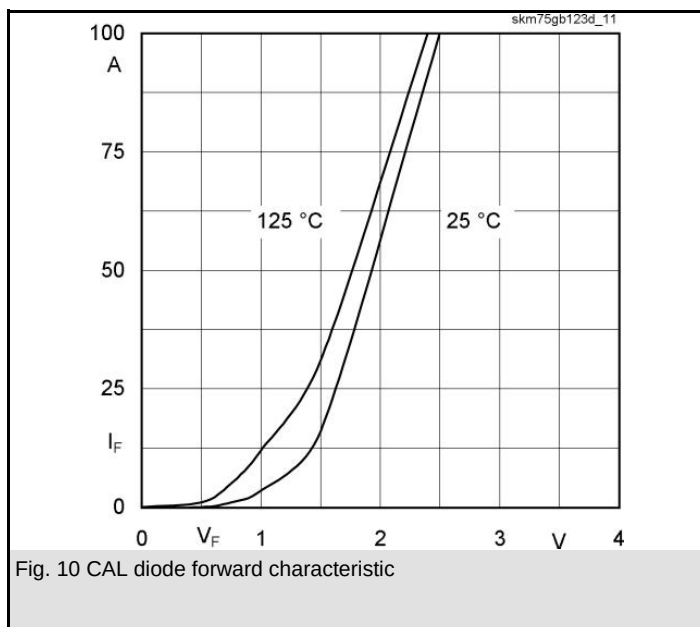
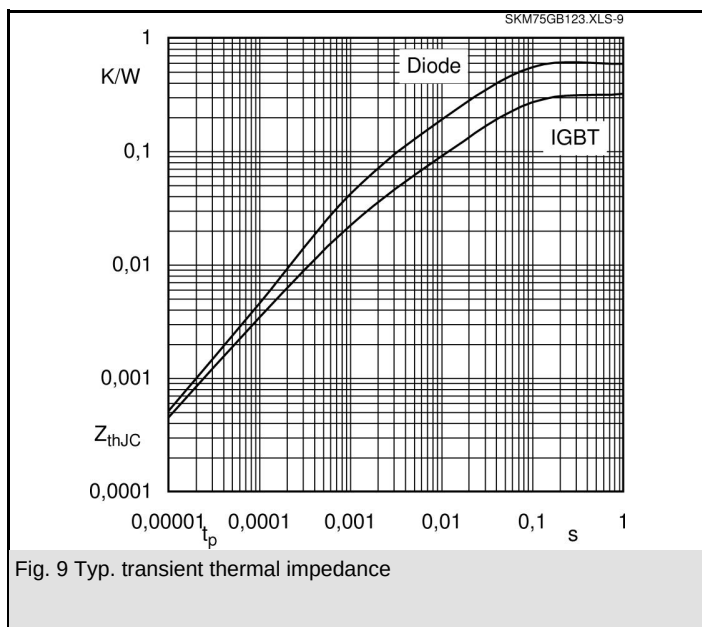
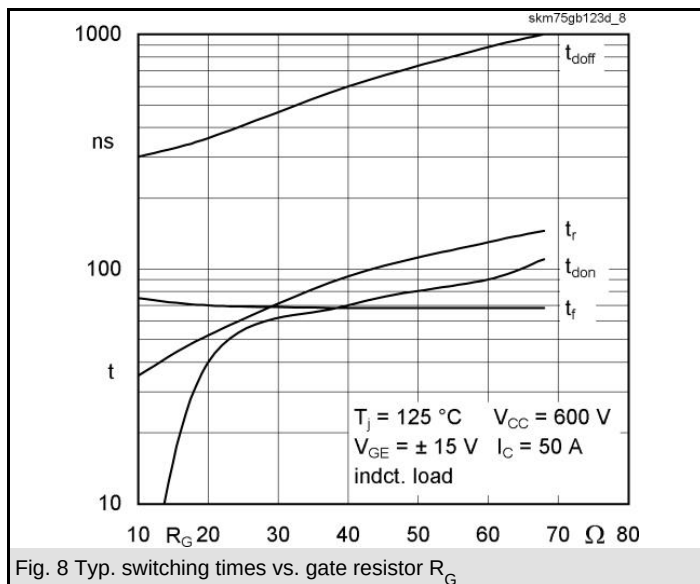
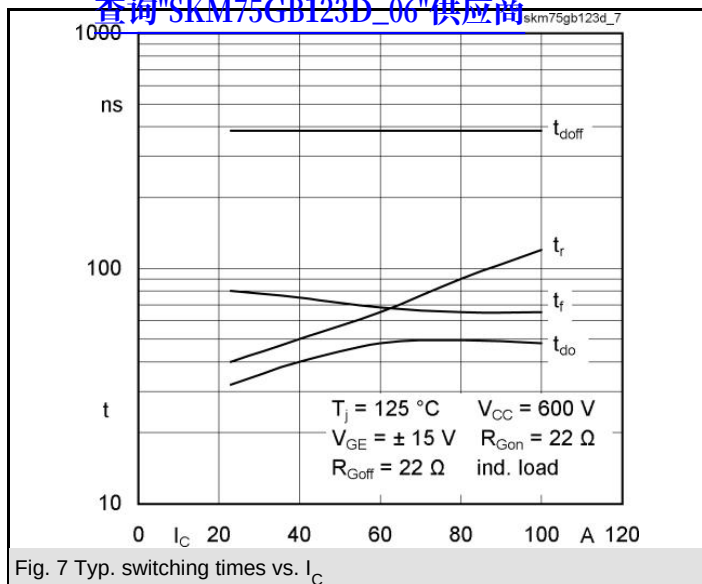
[查询"SKM75GB123D_06"供应商](#)

Symbol	Conditions	Values	Units
$Z_{th(j-c)I}$			
R_i	$i = 1$	180	mk/W
R_i	$i = 2$	64	mk/W
R_i	$i = 3$	22	mk/W
R_i	$i = 4$	4	mk/W
τ_{ui}	$i = 1$	0,0327	s
τ_{ui}	$i = 2$	0,0479	s
τ_{ui}	$i = 3$	0,008	s
τ_{ui}	$i = 4$	0,005	s
$Z_{th(j-c)D}$			
R_i	$i = 1$	380	mk/W
R_i	$i = 2$	190	mk/W
R_i	$i = 3$	26	mk/W
R_i	$i = 4$	4	mk/W
τ_{ui}	$i = 1$	0,0947	s
τ_{ui}	$i = 2$	0,006	s
τ_{ui}	$i = 3$	0,08	s
τ_{ui}	$i = 4$	0,003	s

查询"SKM75GB123D_06"供应商



查询"SKM75GB123D_06"供应商

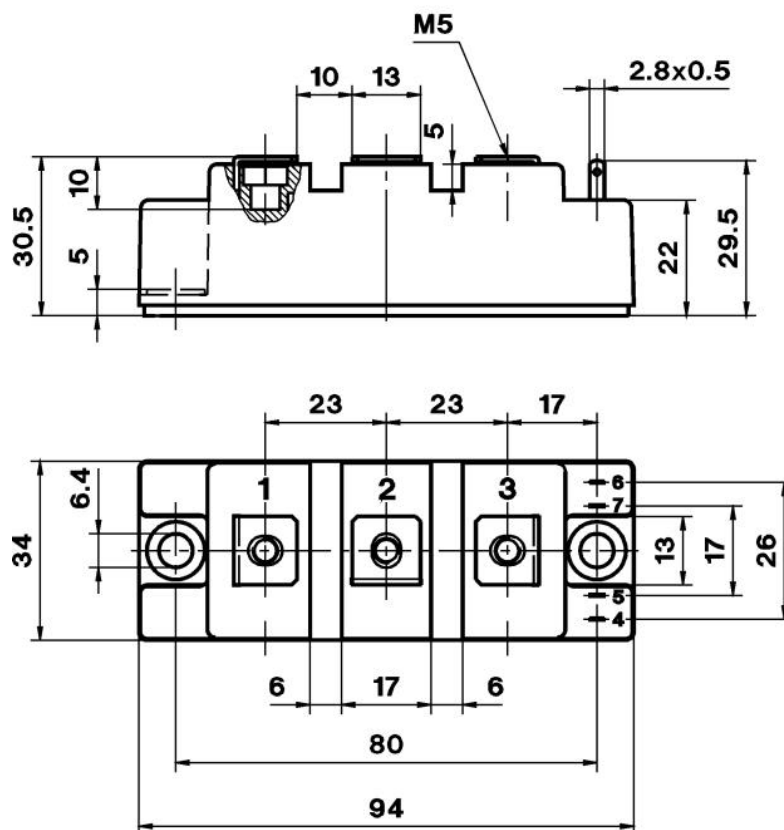


SKM 75GB123D

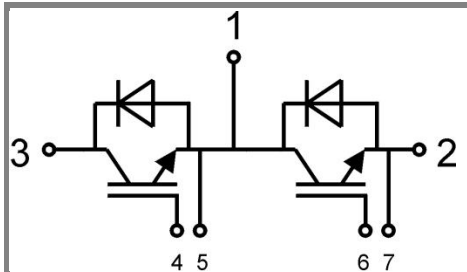
UL Recognized [查询"SKM75GB123D_06"供应商](#)

CASED61

File 63 532

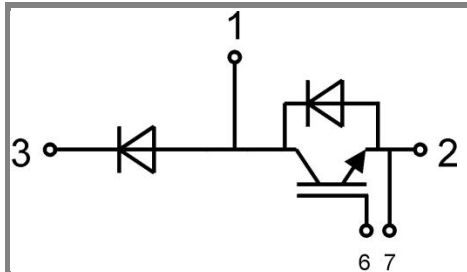


Case D 61



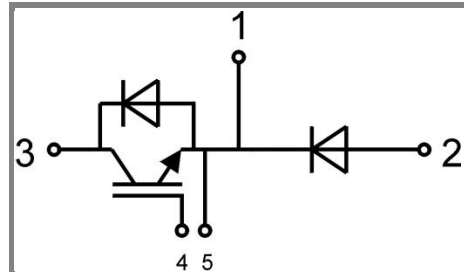
GB

Case D 61



GAL

Case D 62 (→ D 61)



GAR

Case D 63 (→ D 61)