

Overcurrent Protection Selection Method

● Confirmation Items

What is the potential maximum voltage applied to POSISTOR?

How much current flows in the circuit at normal conditions?

How much current flows in the circuit at abnormal conditions?

● Example

Line Voltage 24V

Usual Current 9mA @60°C

Abnormal Current
45mA @-10°C

● Selection Standards

Line Voltage ≤ Max. Voltage

Usual Current ≤ Hold Current

Abnormal Current ≥ Trip Current

Chip Type 0603(1608) Size

Part Number	Max. Voltage (V)	Hold Current (mA)				Trip Current (mA)			Max. Current (mA)	Resistance (at +25°C) (Ω)
		at +85°C	at +75°C	at +50°C	at +25°C	at +25°C	at -10°C	at -20°C		
PRG18BB471MB1RB	24	-	5	10	10	21	25	26	60	470 ±20%
PRG18BB221MB1RB	24	-	8	10	14	29	35	36	130	220 ±20%
PRG18BB101MB1RB	24	-	12	15	21	45	55	56	300	100 ±20%
PRG18BB470MB1RB	24	-	14	20	29	61	75	78	630	47 ±20%
PRG18BB330MB1RB	24	-	18	25	36	71	85	90	630	47 ±20%
PRG18BC220MM1RB	24	-	-	37	54	113	145	-	-	-
PRG18BC150MM1RB	24	-	-	-	64	-	-	-	-	-

PRG18BB221MB1RB is the best selection in this case.