

BD675G, BD675AG, BD677G, BD677AG, BD679G, BD679AG, BD681G

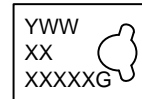
ELECTRICAL CHARACTERISTICS (T_C = 25 C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Collector–Emitter Breakdown Voltage, (Note 1) (I _C = 50 mAdc, I _B = 0) BD675G, BD675AG BD677G, BD677AG BD679G, BD679AG BD681G	BV _{CEO}	45 60 80 100	–	Vdc
Collector Cutoff Current (V _{CE} = Half Rated V _{CEO} , I _B = 0)	I _{CEO}	–	500	μAdc
Collector Cutoff Current (V _{CB} = Rated BV _{CEO} , I _E = 0) (V _{CB} = Rated BV _{CEO} , I _E = 0, T _C = 100 C)	I _{CBO}	–	0.2 2.0	mAdc
Emitter Cutoff Current (V _{BE} = 5.0 Vdc, I _C = 0)	I _{EBO}	–	2.0	mAdc
ON CHARACTERISTICS				
DC Current Gain, (Note 1) (I _C = 1.5 Adc, V _{CE} = 3.0 Vdc) BD675G, BD677G, BD679G, BD681G (I _C = 2.0 Adc, V _{CE} = 3.0 Vdc) BD675AG, BD677AG, BD679AG	h _{FE}	750 750	–	–
Collector–Emitter Saturation Voltage, (Note 1) (I _C = 1.5 Adc, I _B = 30 mAdc) BD677G, BD679G, BD681G (I _C = 2.0 Adc, I _B = 40 mAdc) BD675AG, BD677AG, BD679AG	V _{CE(sat)}	–	2.5 2.8	Vdc
Base–Emitter On Voltage, (Note 1) (I _C = 1.5 Adc, V _{CE} = 3.0 Vdc) BD677G, BD679G, BD681G (I _C = 2.0 Adc, V _{CE} = 3.0 Vdc) BD675AG, BD677AG, BD679AG	V _{BE(on)}	–	2.5 2.5	Vdc
DYNAMIC CHARACTERISTICS				
Small Signal Current Gain (I _C = 1.5 Adc, V _{CE} = 3.0 Vdc, f = 1.0 MHz)	h _{fe}	1.0	–	–

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TO-225
CASE 77-09
ISSUE AD

DATE 25 MAR 2015



Y = Year
WW = Work Week
XXXXX = Device Code
G
G

S LE1:
PIN 1. EMI ER
2., 4. COLLEC OR
3. BASE

S LE2:
PIN 1. CA HODE
2., 4. ANODE
3. GA E

S LE3:
PIN 1. BASE
2., 4. COLLEC OR
3. EMI ER

S LE4:
PIN 1. ANODE 1
2., 4. ANODE 2
3. GA E

S LE5:
PIN 1. M 1
2., 4. M 2
3. GA E

S LE6:
PIN 1. CA HODE
2., 4. GA E
3. ANODE

S LE7:
PIN 1. M 1
2., 4. GA E
3. M 2

S LE8:
PIN 1. SO RCE
2., 4. GA E
3. DRAIN

S LE9:
PIN 1. GA E
2., 4. DRAIN
3. SO RCE

S LE10:
PIN 1. SO RCE
2., 4. DRAIN
3. GA E

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