

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Medium-power rectifiers

SCHOTTKY-BARRIER DIODES OVERVIEW

V_R (V)	leaded		surface-mount		$\leq I_{F(AV)max.}$
	SOD81 1.0 A	SOD87 1.0 A	SOD106A 1.0 A	SOT223 1.0 A	
20	1N5817 BYV10-20	PRLL5817	BYG90-20	–	
30	1N5818 BYV10-30	PRLL5818	BYG90-30	–	
40	1N5819 BYV10-40	PRLL5819	BYG90-40	–	
90	–	–	BYG90-90	–	
100	–	–	–	PBYR2100CT ¹⁾	

¹⁾ double diode

SCHOTTKY-BARRIER DIODES

type number	ratings				characteristics			package	type
	V_{RRM} max. (V)	V_R max. (V)	$I_{F(AV)}$ max. (A)	I_{FSM} max. (A)	C_d ¹⁾ max. (pF)	V_F max. (mV)	@ I_F ²⁾ (A)		
LEADED TYPES									
1N5817	20	20	1	25	80 ³⁾	450	1	SOD81	Implotec
1N5818	30	30	1	25	50 ³⁾	550	1	SOD81	Implotec
1N5819	40	40	1	25	50 ³⁾	600	1	SOD81	Implotec
BYV10-20	20	20	1	–	220 ³⁾	550	1	SOD81	Implotec
BYV10-30	30	30	1	–	220 ³⁾	550	1	SOD81	Implotec
BYV10-40	40	40	1	–	220 ³⁾	550	1	SOD81	Implotec
SURFACE-MOUNT TYPES									
BYG90-20	20	20	1	30	75	550	1	SOD106A	plastic
BYG90-30	30	30	1	30	75	550	1	SOD106A	plastic
BYG90-40	40	40	1	30	75	550	1	SOD106A	plastic
BYG90-90	90	90	1	30	100	790	1	SOD106A	plastic
PBYR2100CT ⁴⁾	100	100	1	10	100	790	1	SOT223	plastic
PRLL5817	20	20	1	25	70 ³⁾	450	1	SOD87	Implotec
PRLL5818	30	30	1	25	50 ³⁾	550	1	SOD87	Implotec
PRLL5819	40	40	1	25	50 ³⁾	600	1	SOD87	Implotec

¹⁾ at $V_R = 4$ V

²⁾ measured under pulsed conditions to limit the dissipation; $T_j = 25^\circ\text{C}$

³⁾ typical value

⁴⁾ double diode

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