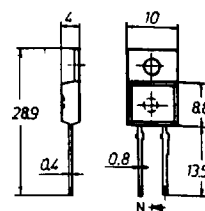
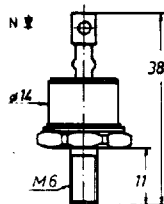
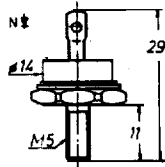


SILICON DIODES

POWER SCHOTTKY



CASES : DO-4

DO-5

TO-220d

$T_{JM}=125^{\circ}\text{C}$ $I_{FSM}=135\text{A}$ $R_{thJ-C}\leq 3^{\circ}\text{C/W}$

TYPE	$I_{FAVM} @ T_C$		V_{RRM}	$V_F @ 25^{\circ}\text{C}$ & $I_F \#$		$I_R @ V_{RRM} \#$ $T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$		r_F ($\times 10^{-3}$ ohms)	C_{tot}^* $T_{VJ}=25^{\circ}\text{C}$ max. (nF)	CASE STYLE
	(A)	($^{\circ}\text{C}$)		max. (V)	(A)	max. (μA)	max. (μA)			
20BS 20	20	125	20	0.75	20	10	40		1.5	TO-220d
20BS 25			25							
20BS 30			30							
20BS 35			35							
20BS 40			40							
20BS 45			45							
20BS 50			50							
20BS 55			55							
20BS 60			60							

Test conditions : # 300 us pulse width, 2% duty factor

* $V_F = 5\text{V}$, $f = 1\text{MHz}$

T Y P E	$I_{FAVM} @ T_C$		V_{RRM}	$V_F @ 25^{\circ}\text{C}$ & I_F		I_R $T_J=25^{\circ}\text{C}$	V_{FO}	r_F	C_{tot} $T_{VJ}=25^{\circ}\text{C}$	CASE STYLE
	(A)	$(^{\circ}\text{C})$	(V)	max.	(A)	max.	(V)	$(\times 10^{-3})$	max.	
				(V)		(μA)		(ohms)	(nF)	
32 A_{rms} $T_{JM}=125^{\circ}\text{C}$ $I_{FSM}=400\text{A}$ $R_{thJ-C}\leq 1.5^{\circ}\text{C/W}$ $i^2t=800\text{A}^2s$										
DS20S 20	20	97	20	0.65	20	20	0.38	6.2	1.5	DO-4
DS20S 30			30							
DS20S 35			35							
DS20S 40			40							
DS20S 45			45							
(R) Reverse pol.										

48 A_{rms} $T_{JM}=125^{\circ}\text{C}$ $I_{FSM}=500\text{A}$ $R_{thJ-C}\leq 1.5^{\circ}\text{C/W}$ $i^2t=1.25\text{kA}^2\text{s}$										
DS30S 20	30	97	20	0.65	30	20	0.38	6.2	1.5	DO-4
DS30S 30			30							
DS30S 35			35							
DS30S 40			40							
DS30S 45			45							
(R) Reverse pol.										

79 A_{rms} $T_{JM}=125^{\circ}\text{C}$ $I_{FSM}=700\text{A}$ $R_{thJ-C}\leq 0.9^{\circ}\text{C/W}$ $i^2t=2.45\text{kA}^2\text{s}$										
DS50S 20	50	89	20	0.65	50	25	0.38	2.75	4	DO-5
DS50S 30			30							
DS50S 35			35							
DS50S 40			40							
DS50S 45			45							
(R) Reverse pol.										

95 A_{rms} $T_{JM}=125^{\circ}\text{C}$ $I_{FSM}=800\text{A}$ $R_{thJ-C}\leq 0.9^{\circ}\text{C/W}$ $i^2t=3.20\text{kA}^2\text{s}$										
DS60S 20	60	89	20	0.65	60	25	0.38	2.75	4	DO-5
DS60S 30			30							
DS60S 35			35							
DS60S 40			40							
DS60S 45			45							
(R) Reverse pol.										