



TAYCHIPST

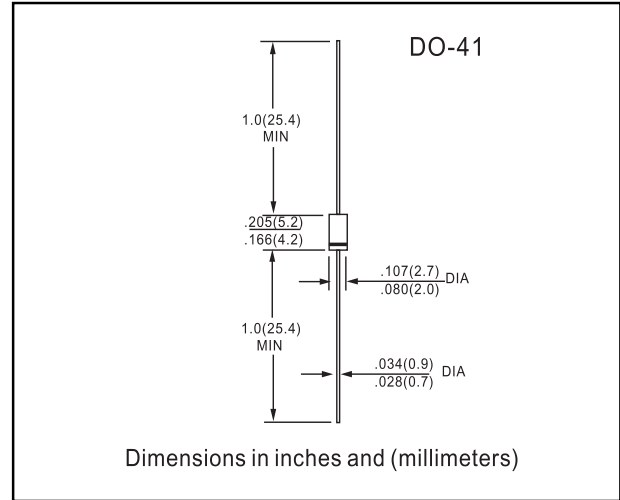
RECTIFIER DIODES

BY214-400 THRU BY214-1000

400V-1000V 6.0A

FEATURES

- STANDARD RECTIFIER
- HIGH SURGE CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter	Value	Unit
$I_{F(AV)}$	Average forward current *	$T_a=90^{\circ}\text{C}$ 6	A
I_{FSM}	Surge non repetitive forward current	$t_p=10\text{ms}$ sinusoidal 400	A
P_{tot}	Power dissipation *	$T_a=90^{\circ}\text{C}$ 6	W
T_{stg} T_j	Storage and junction temperature range	- 65 to + 150	$^{\circ}\text{C}$
T_L	Maximum lead temperature for soldering during 10s at 4mm from case	230	$^{\circ}\text{C}$

Symbol	Parameter	BY214-				Unit
		400	600	800	1000	
V_{RRM}	Repetitive peak reverse voltage	400	600	800	1000	V

THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Junction ambient *	10	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS

Symbol	Test Condition		Min.	Typ.	Max.	Unit
V	$T_j = 25^{\circ}\text{C}$	$I_F = 20\text{A}$			1.2	V
I_R	$T_j = 100^{\circ}\text{C}$	$V_R = V_{RRM}$			250	μA

Pulse test : * $t_p = 380\ \mu\text{s}$, duty cycle < 2 %

** $t_p = 5\ \text{ms}$, duty cycle < 2 %