

# ESD protection diodes

## Cross reference list

# Safeguarding circuits

## everywhere



Types in **bold** represent **Philips exact replacements**

Types in *italic* represent *Philips nearest equivalents*

Competitor type	Philips type	Competitor type	Philips type	Competitor type	Philips type
CP05	<b>BZA462A</b>	EMZ6.8N	<i>PESD5V0S2UQ</i>	GSOT12C	<b>PESD12VS2UT</b>
CP12	<i>BZA418A</i>	ESDA14V2L	<b>PESD12VS2UT</b>	GSOT15C	<b>PESD15VS2UT</b>
CP15	<b>BZA418A</b>	ESDA17SC6	<b>BZA418A</b>	GSOT24C	<b>PESD24VS2UT</b>
CP24	<i>BZA420A</i>	ESDA19SC6	<b>BZA420A</b>	HZB5.6MFA	<b>BZA856AL</b>
DF3A3.3FE	<i>PESD3V3S2UQ</i>	ESDA25L	<b>PESD24VS2UT</b>	HZB6.8ZMFA	<b>PESD5V0L4UG</b>
DF3A3.6FE	<i>PESD3V3S2UQ</i>	ESDA5V3L	<b>PESD3V3S2UT</b>	HZM3.3WA	<i>PESD3V3S2UT</i>
DF3A5.6FE	<i>PESD3V3S2UQ</i>	ESDA5V3SC5	<i>BZA456A</i>	HZM4.3FA	<i>BZA456A</i>
DF3A6.2FE	<i>PESD5V0S2UQ</i>	ESDA5V3SC6	<b>BZA456A</b>	HZM5.6ZFA	<i>BZA456A</i>
DF3A6.8FE	<i>PESD5V0S2UQ</i>	ESDA6V1-4BC6	<b>BZA408B</b>	HZM6.2ZMWA	<i>PESD5V2S2UT</i>
DF3A8.2FE	<i>PESD5V0S2UQ</i>	ESDA6V1-5P6	<i>PESD5V0L5UY</i>	HZM6.8MFA	<i>BZA462A</i>
DF5A3.3F	<i>BZA456A</i>	ESDA6V1-5W6	<i>PESD5V0L5UY</i>	HZM6.8MWA	<i>PESD5V2S2UT</i>
DF5A3.3FU	<i>BZA856AL</i>	ESDA6V1B1	<i>PESD5V0L7BS</i>	HZM6.8ZMFA	<i>BZA462A</i>
DF5A3.3JE	<i>BZA956A</i>	ESDA6V1BC6	<i>BZA408B</i>	HZM6.8ZMWA	<i>PESD5V2S2UT</i>
DF5A3.6F	<i>BZA456A</i>	ESDA6V1L	<b>PESD5V2S2UT</b>	HZM7.5FA	<i>BZA462A</i>
DF5A3.6FU	<i>BZA856AL</i>	ESDA6V1P6	<b>BZA968A</b>	HZN6.8ZMFA	<b>PESD5V0L4UW</b>
DF5A3.6JE	<i>BZA956A</i>	ESDA6V1S3	<b>BZA100</b>	MMBZ10VAL	<i>PESD12VS2UT</i>
DF5A5.6F	<b>BZA456A</b>	ESDA6V1SC5	<i>BZA462A</i>	MMBZ12VAL	<i>PESD12VS2UT</i>
DF5A5.6FU	<b>BZA856AL</b>	ESDA6V1SC6	<b>BZA462A</b>	MMBZ15VAL	<b>PESD12VS2UT</b>
DF5A5.6JE	<b>BZA956A</b>	ESDA6V1U1	<i>PESD5V0L6US</i>	MMBZ15VDL	<b>PESD12VS2UAT</b>
DF5A6.2F	<b>BZA462A</b>	ESDA6V1W5	<b>BZA868AL</b>	MMBZ18VAL	<b>PESD15VS2UT</b>
DF5A6.2FU	<b>BZA862AL</b>	ESDA6V2S6	<b>PESD5V2S18U</b>	MMBZ20VAL	<i>PESD15VS2UT</i>
DF5A6.2JE	<b>BZA962A</b>	ESDALC6V1P6	<b>PESD5V0L4UW</b>	MMBZ27VAL	<b>PESD24VS2UT</b>
DF5A6.2LFU	<i>PESD5V0L4UG</i>	ESDALC6V1W5	<b>PESD5V0L4UG</b>	MMBZ27VCL	<b>PESD24VS2UAT</b>
DF5A6.2LJE	<i>PESD5V0L4UW</i>	FTZ5.6E	<b>BZA456A</b>	MMBZ5V6AL	<b>PESD3V3S2UT</b>
DF5A6.8F	<i>BZA462A</i>	FTZ6.8E	<b>BZA462A</b>	MMBZ6V2AL	<i>PESD5V2S2UT</i>
DF5A6.8FU	<b>BZA868AL</b>	GMDA05-6	<i>PESD5V0L6US</i>	MMBZ6V8AL	<b>PESD5V2S2UT</b>
DF5A6.8JE	<b>BZA968A</b>	GMF05	<b>BZA868AL</b>	MMBZ9V1AL	<i>PESD12VS2UT</i>
DF5A6.8LFU	<b>PESD5V0L4UG</b>	GMF05C-HS3	<b>PESD5V0L5UV</b>	MMQA12V	<i>BZA418A</i>
DF5A6.8LJE	<b>PESD5V0L4UW</b>	GMF05LC-HS3	<b>PESD5V0L5UV</b>	MMQA13V	<i>BZA418A</i>
DF5A8.2F	<i>BZA462A</i>	GMS05	<b>BZA462A</b>	MMQA15V	<i>BZA418A</i>
DF5A8.2FU	<i>BZA868AL</i>	GSOT03C	<b>PESD3V3S2UT</b>	MMQA18V	<b>BZA418A</b>
DF5A8.2JE	<i>BZA968A</i>	GSOT04C	<i>PESD5V2S2UT</i>	MMQA20V	<b>BZA420A</b>
DF5A8.2LFU	<i>PESD5V0L4UG</i>	GSOT05C	<b>PESD5V2S2UT</b>	MMQA21V	<i>BZA420A</i>
DF5A8.2LJE	<i>PESD5V0L4UW</i>	GSOT05C - HT3	<b>PESD5V0S2UQ</b>	MMQA22V	<i>BZA420A</i>
EMZ6.8E	<b>PESD5V0L4UW</b>	GSOT08C	<i>PESD12VS2UT</i>	MMQA24V	<i>BZA420A</i>

# PHILIPS

# ESD protection diodes Cross reference list

## Safeguarding circuits everywhere



Competitor type	Philips type	Competitor type	Philips type	Competitor type	Philips type
MMQA5V6	<b>BZA456A</b>	PSOT15C	<b>PESD15VS2UT</b>	SMS03	<b>BZA456A</b>
MMQA6V2	<b>BZA462A</b>	PSOT15KCA	<b>PESD12VS2UAT</b>	SMS05	<b>BZA462A</b>
MMQA6V8	BZA462A	PSOT24C	<b>PESD24VS2UT</b>	SMS12	BZA418A
MSQA6V1W5	<b>BZA868AL</b>	RSA 6.1EN	<b>BZA968A</b>	SMS15	<b>BZA418A</b>
NSQA6V8AW5T2	<b>PESD5V0L4UG</b>	RSA 6.1J4	<b>PESD5V0L4UW</b>	SMS24	BZA420A
NZQA5V6AXV5	<b>PESD3V3L4UW</b>	RSB6.8G	<i>PESD5V0S1BA</i>	SMS3.3	<b>BZA456A</b>
NZQA5V6XV5	<b>BZA956A</b>	RSB6.8S	<b>PESD5V0S1BB</b>	SMZ15	<b>PESD12VS2UT</b>
NZQA6V2XV5	BZA962A	SD05C	<b>PESD5V0S1BA</b>	SMZ5.1	<b>PESD3V3S2UT</b>
NZQA6V8AXV5	<b>PESD5V0L4UW</b>	SM03	<b>PESD3V3S2UT</b>	STZ5.6N	<i>PESD3V3S2UT</i>
NZQA6V8XV5	<b>BZA968A</b>	SM05	<b>PESD5V2S2UT</b>	STZ6.2N	<i>PESD3V3S2UT</i>
PACDN042	<b>PESD5V2S2UT</b>	SM12	<b>PESD12VS2UT</b>	STZ6.8N	<i>PESD5V2S2UT</i>
PACDN044Y	<b>BZA462A</b>	SM15	<b>PESD15VS2UT</b>	STZ6.8T	<i>PESD5V0S2UAT</i>
PSD05C	<b>PESD5V0S1BA</b>	SM24	<b>PESD24VS2UT</b>	TDMA05-18	<b>BZA100</b>
PSMDA05-18	<b>BZA100</b>	SMDA05-6	<i>PESD5V0L6US</i>	TSMDA05CM	<b>PESD5V0L7BAS</b>
PSMDA05-6	<b>PESD5V0L6US</b>	SMDA05-6	<b>PESD5V0L6US</b>	UMZ6.8EN	<b>PESD5V0L4UG</b>
PSMF05	<b>PESD5V0L4UG</b>	SMDA05-6R2	<i>PESD5V0L6US</i>		
PSMS05	<b>BZA462A</b>	SMDA05-7	<b>PESD5V0L7BS</b>		
PSMS12	BZA418A	SMDA05C-5	<i>PESD5V0L6US</i>		
PSMS15	<b>BZA418A</b>	SMDA05C-7	<i>PESD5V0L7BS</i>		
PSMS24	BZA420A	SMDA05CM	<b>PESD5V0L7BS</b>		
PSOT03C	<b>PESD3V3S2UT</b>	SMDA05CN-5	<b>PESD5V0L6US</b>		
PSOT05C	<b>PESD5V2S2UT</b>	SMF05	<b>BZA868AL</b>		
PSOT08C	<i>PESD12VS2UT</i>	SMF05C	<b>PESD5V0L5UY</b>		
PSOT12C	<b>PESD12VS2UT</b>	SMF3.3	<b>PESD3V3L4UG</b>		

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